PIN NUMBER: 0558CN1404

Rev 5

Fire Ribbon™

With Battery Remote System

TECHNICAL INSTALLATION MANUAL

For use with Natural Gas (G20) or LPG (G31)

Important

It is recommended, even if you have fitted these appliances before, that you take the time to read through these instructions and follow them step by step.

Serial Number .....

Please quote this serial number when making a claim. Your Warranty is valid for 1 Year from date of delivery. The Warranty card supplied is to be filled in and sent to
Spirit Fires Limited. 4 Beaumont Square, Aycliffe Industrial Park, Newton Aycliffe, County Durham, DL5 6XN

This manual must be handed to the owner to the owner of the property once commissioned

Contents

Page 3 Technical Data
Page 4 READ THIS FIRST
Page 5 Unpacking the Appliance
Page 6 Fire Ribbon with Polished Metal Enclosure
Page 8 Fire Ribbon with Stone Enclosure
Page 10 Gas Burner Construction
Page 11 Remote Control System
Page 12 General Installation Information
Page 14 Building and Installation Work
Page 18 Installing the Polished Metal Enclosure
Page 19 Gather of Metal Enclosure
Page 20 Fitting the Magic Eye to Metal enclosure
Page 21 Installing the Stone Version Enclosure
Page 22 Gather for Stone Version
Page 22 Fitting the Stone Pieces
Page 23 Fitting the Magic Eye-Stone Version
Page 24 Fitting the Fascia-Both Versions
Page 28 COMMISSION THE APPLIANCE
Page 31 Final Checklist
Page 32 CVO Commissioning Checklist
Page 33 Oxygen Depletion Pilot System
Page 33 Spark Failure
Page 34 Flame / Fire Guards and Hearths
Page 35 Fault Diagnosis/Troubleshooting
Page 36 Quick Reference Fault Diagnosis
Page 37 Remote Control Components
Page 38 Battery Remote System – Alarm Sequence
Page 39 Service and Aftercare Requirements
Page 39 Servicing Instructions
Page 41 Exchangable Parts List
Page 42 Fitting Spare Parts
Page 42 Burner Removal
Page 43 Fitting the Optional Wall Switch.
Page 46 Converting the Fire to Mains Voltage Supply
Page 47 User Handbook

Appliance Technical Data

Gas	Gas Type	Gas Category	Gas Pressure	Injector [x 2]	Pilot Assembly	Nominal Heat Input [Gross, kW]	Minimum Flue Diameter	Minimum Flue Length	Countries of Destination
NG	G20	I_{2H}	20mbar	090	P4-70	17.2	200mm	1.0m	AT, BG, CH, CZ, DK, EE, ES, FI, GB, GR, HR, IE, IT, LT, LV, NO, PT, RO, SE, SI, SK, TR
				460	NG9103	14.0	200mm	1.0m	
				440	NG9103	12.1	175mm	2.0m	
				340	NG9103	10.5	175mm	2.0m	
				300	NG9103	9.2	175mm	2.0m	
NG	G20	I_{2E}	20mbar	460	NG9103	14.0	200mm	1.0m	DE, LU, PL, RO
				440		12.1	175mm	2.0m	
				340		10.5	175mm	2.0m	
				300		9.2	175mm	2.0m	
NG	G20 ⇆G25	I_{2E+}	20mbar⇆ 25mbar	460	NG9103	14.0/13.0	200mm	1.0m	BE, FR
				440		12.1⇆11.1	175mm	2.0m	
				340		10.5⇆9.6	175mm	2.0m	
				300		9.2⇆8.4	175mm	2.0m	
NG	G25	I_{2L}	25mbar	460	NG9103	13.0	200mm	1.0m	NL
				440		11.1	175mm	2.0m	
				340		9.6	175mm	2.0m	
				300		8.4	175mm	2.0m	
LPG	G31	$I_{3P(37)}$	37mbar	160	P4-14	20.0	200mm	1.5m	BE, CH, CZ, ES, FR, GB, GR, HR, IE, IT, LT, NL, PL, PT, SI, SK
				125	LPG9272	12.4	175mm	3.0m	

- Refer to Data Plate for model supplied.
- Gas Connection is via an 8mm Isolation Valve.
- Appliance Mass - Approximately 75kgs.

READ THIS FIRST

This appliance is supplied as a complete suite of enclosure of gas fire burner unit, enclosure and fascia. To comply with the approval this fire must be installed as designed**.**

- **Gas Supply: DO NOT INSTALL THE APPLIANCE UNTIL A PIPE WORK FLOW RATE CHECK HAS BEEN DONE. INCORRECT PRESSURE WILL CAUSE THE FIRE TO FAIL THE COMISSIONING CHECK**.
  - This is a high power appliance and needs a very strong gas supply to pass the commissioning test. A full flow rate calculation needs to be done to ensure the pipe work is suitable.
  - **GAS FLOW RATE : CHECK PIPE WORK BEFORE INSTALLATION**
    - **NATURAL GAS = 1.6 M3/HOUR**
    - **LPG/PROPANE = 0.8 M3/HOUR**
  - ***LPG Version:*** If running this appliance from Gas Bottles the minimum requirement is 2 x 47Kg bottles with a regulator set to the required pressure and a changeover valve.
  - Failure to observe these warnings will make the appliance unreliable and possibly dangerous.
- **Room Ventilation:** This fire requires a 100cm2 free air wall vent in the room in which it is installed.
- **Fascia:** The fire must be installed with the fascia "floating" on the wall with the required "air intake" area provided below the shelf as shown in the following pages. The fascia should never be "flush" mounted into the wall otherwise serious burner damage will occur. The fascia must be installed as intended and ventilation to the burner must be provided.
- **Enclosure:** Special notice should be taken for the requirements of both the metal and stone fascia version fires as the enclosure must be installed differently. On the metal fascia version the enclosure is flush with the finished wall. On the stone fascia version the enclosure must stand 18mm proud of the finished wall.
- **Gather:** An optional gather is available to attach the enclosure to a 175mm class 1 flue liners. This gather should be ordered with the appliance however if this has been missed this can be ordered from Customer Services on 01325-327221.
-
- **Flue System:** This fire is approved for use with a class 1 or 175mm flue of 2 metres for Natural Gas or 3 meters for LPG minimum length. If a flue system in excess of the specified length is used this may cause a very strong draw to occur which will result in the flame being adversely effected and forced towards the back of the enclosure. This is unavoidable and is a site specific condition and does not indicate an appliance fault.
- **Flame:** As stated above, it is normal with this type of appliance for the flame to be directed towards the back of the enclosure. This will be worse where the fire is installed without the official gather and with a long flue.
- **Remote Heat Shield:** This fire is approved with the heat shield in place. The fire should never be operated without the heat shield; any resulting damage caused by heat is not covered by the warranty.

Unpacking the Appliance

Read these instructions fully before proceeding.

Carefully examine the carton for damage before proceeding. If it is obviously damaged, please contact supplier over whether to proceed.

Remove the fire and examine its general condition. If satisfied by the condition, proceed with the installation. **PLEASE NOTE no claims will be accepted for damaged or faulty components once the appliance has been installed.**

Read the installation instructions fully before starting to install the appliance.

The installation should only be carried out by a GAS SAFE registered engineer, and in accordance with national and local regulations for gas.

The installation must also be in accordance with relevant parts of local and national building regulations.

For the Republic of Ireland, reference should be made to IS813 and ICP3 and any guidance notes from Bord Gais.

Failure to have the fire fitted by a qualified person nullifies ALL warranties and guarantees.

- **There are two versions of this fire:**
  - **With a Polished Metal Enclosure [go to page 6].**
  - **With a Stone Enclosure [go to page 8]**

Special note should be taken to the different installation requirements of the two versions. Check the delivery paperwork to confirm which version was purchased by the customer.

Fire Ribbon with Polished Metal Enclosure

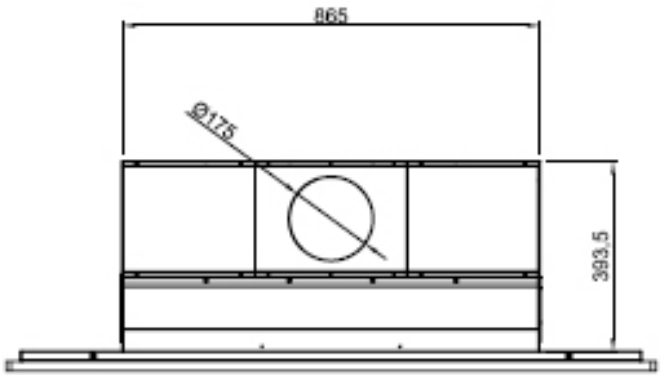
Parts List

- Fire is supplied as a Kit:
  - Highly Polished Steel Enclosure.
  - Front Shelf.
  - Burner Unit with Remote Control [pre-fitted]
  - Fascia (depending on finish).
    - Stone has 2 part wall bracket fitted.
    - Metal fits directly to wall (no bracket)
  - Instruction Booklet
  - Remote Control Handset
- Optional Parts [if ordered]
  - Gather Unit
  - Manual Wall Switch Upgrade
  - Mains Supply Conversion Kit

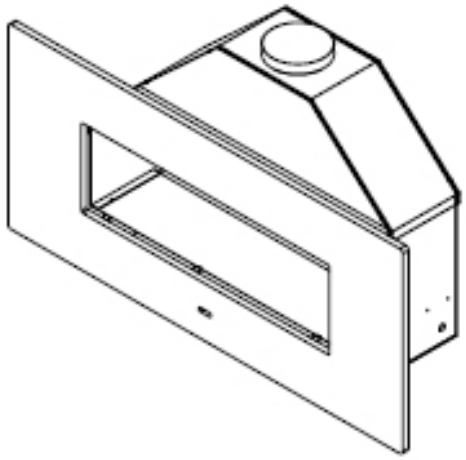
Please check your delivery note. Any missing parts must be notified within 48 hours of delivery. No claims can be accepted after this period.

Construction Dimensions

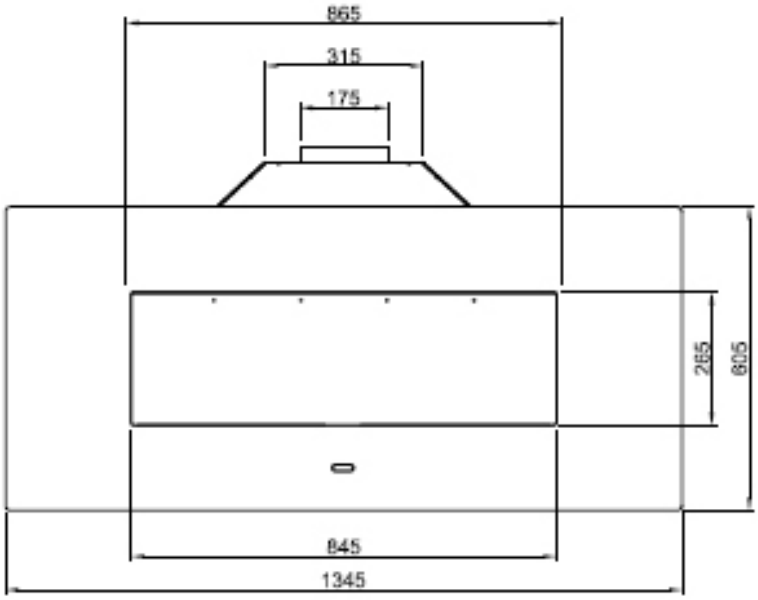
Top view



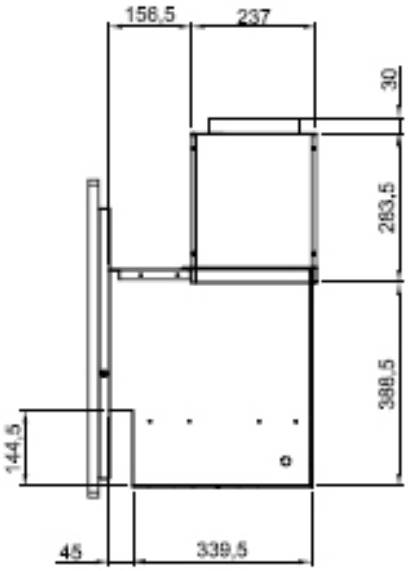
Perspective view



Front view



Side view

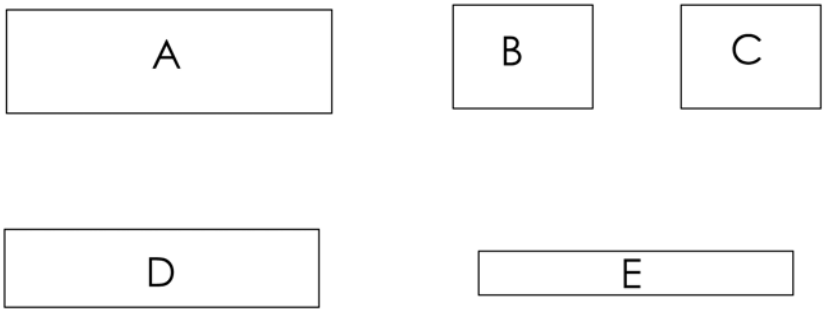


Fire Ribbon with Stone Enclosure

Parts List [STONE VERSION]

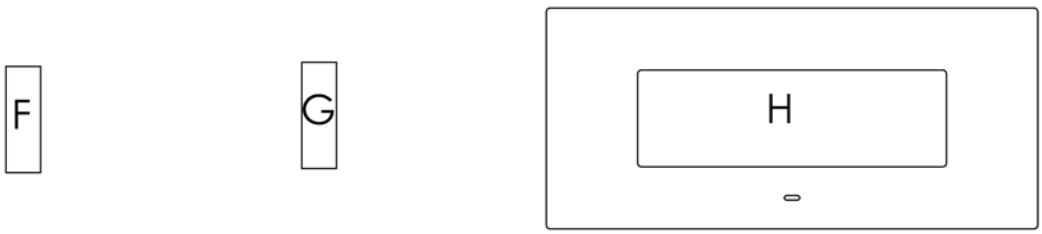
- Fire is supplied as a Kit:
  - Metal Enclosure Box – Black.
  - Stone Lining – 7 parts.
  - Burner Unit with Remote Control [pre-fitted]
  - Fascia (depending on finish).
    - Stone has 2 part wall bracket fitted.
    - Metal fits directly to wall (no bracket)
  - Instruction Booklet
  - Remote Control Handset
- Optional Parts [if ordered]
  - Gather Unit

Please check your delivery note. Any missing parts must be notified within 48 hours of delivery. No claims can be accepted after this period.

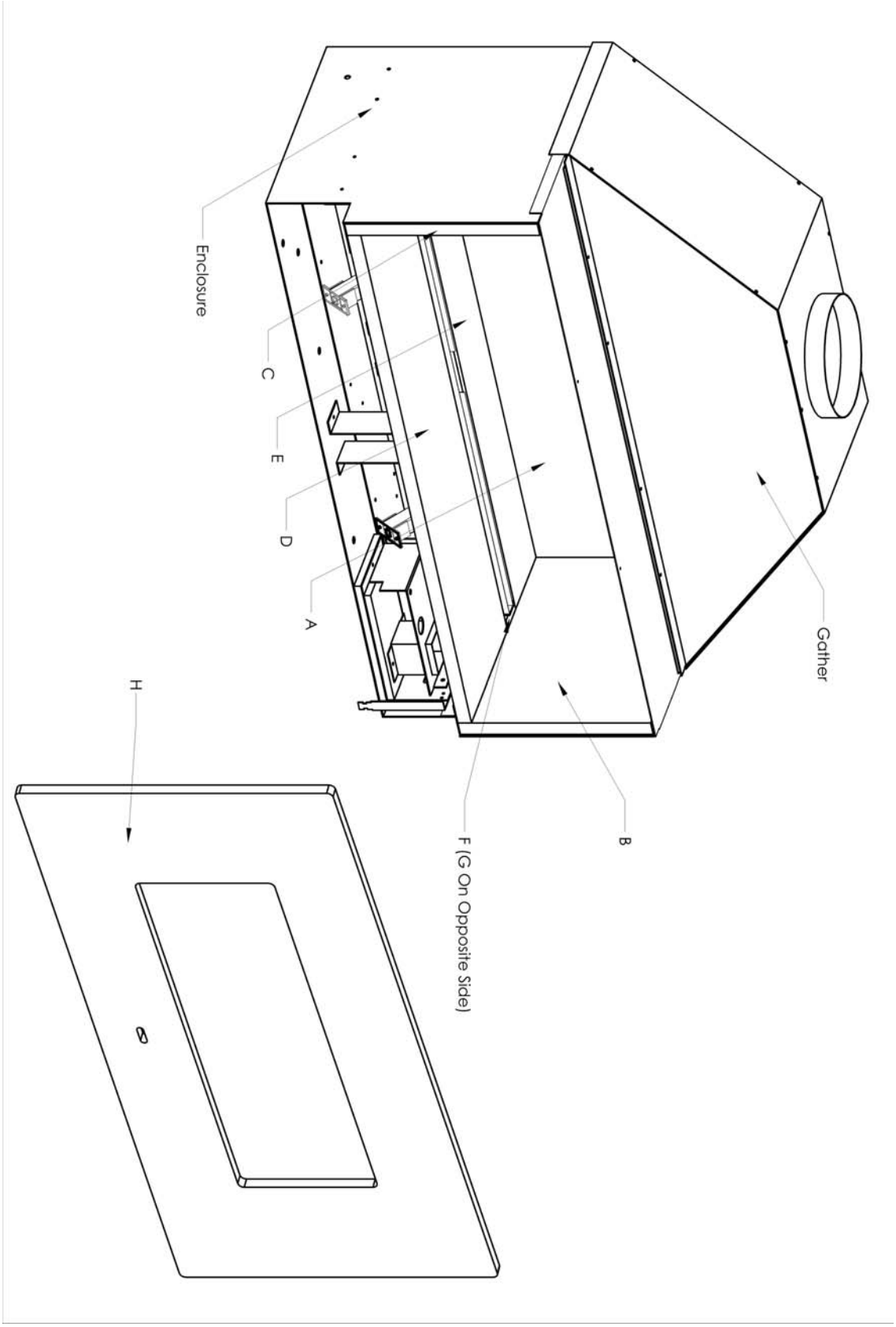


Stone Identification

Letter	Part Name	Size (mm)
A	Rear Panel	890 x 283
B	Right Hand Side Panel	382 x 283
C	Left Hand Side Panel	382 x 283
D	Front Shelf	860 x 213
E	Rear Shelf	860 x 120
F	Left Side Slips	46 x 15
G	Right Side Slips	46 x 15
H	Fascia	1345 x 605

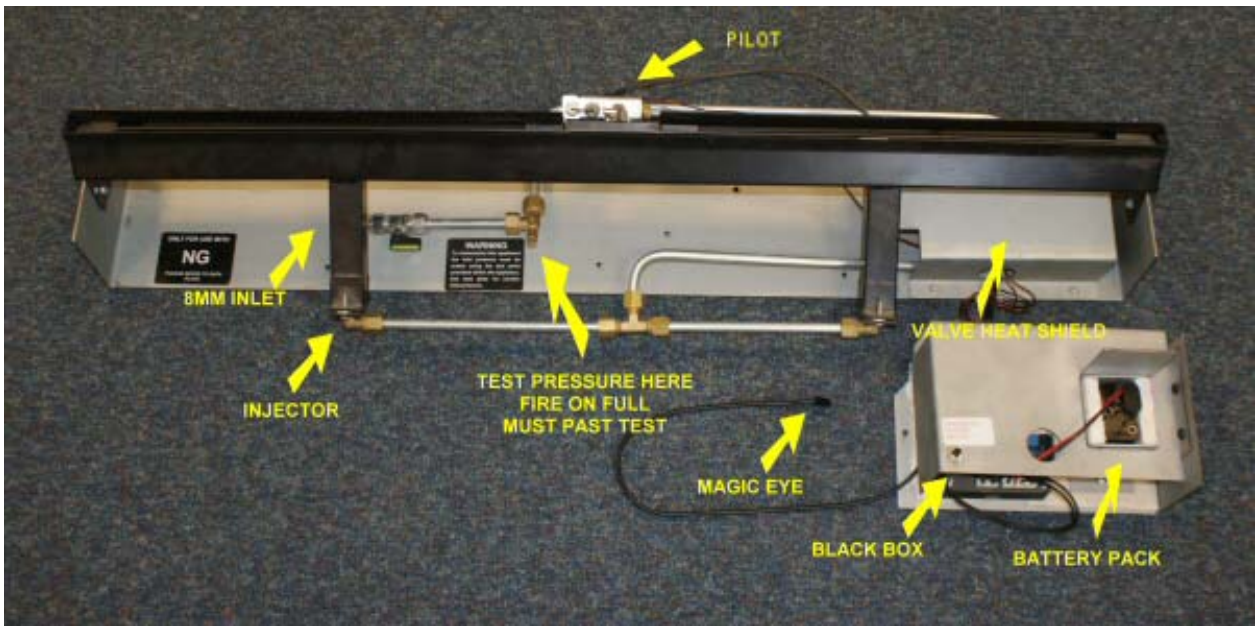


Construction Dimensions [STONE VERSION]



Gas Burner Construction

Take some time to review the burner construction taking note of the positions of the main components and the required connections.



Before starting to install the appliance review the Data Plate fitted to the appliance for the gas type and pressure requirements of the appliance. Ensure these are correct for the property supply.

This Fire has a battery remote control system and requires only the connection of an 8mm gas supply. The remote is operated via a handset and infra red magic eye positioned on the appliance.

The burner is pre fitted to the enclosure. There is no reason to remove it.

All CVO fires are given a 100% full function test at the factory before being shipped. We record over 40 test settings to ensure the fire operates correctly and inline with the CE approval document.

There are no adjustable parts on this fire. Never remove any wires from the black box or the remote system. All connections are required.

DO NOT DISMANTLE THE FIRE AS IT WILL INVALIDATE THE WARRANTY.

Remote Control System

Take some time to learn about the remote system fitted to this fire.

This is operated by a fully sequential battery remote system. This is powered by 6 x AA batteries in the fireplace and a 9V battery in the handset.

The fire is operated by the Infra Red and the handset must be pointed directly at the magic eye on the fire to work. It requires "line of sight". Read the section on lighting the fire for more information. The handset will switch the fire on/off and regulate the flame up/down.

The hand set has a child safe feature to avoid accidental lighting. Please read "lighting the fire" section later in this handbook before operating the appliance.

Note: that if the fire shuts down it is set in "safe mode" to reactivate the fire press button #1 only on the handset. This will cause a beep. Now the fire can be lit again using the standard start-up sequence.

The remote system has a fault diagnosis system built in which is indicated by a number of beeps. Review the "fault diagnosis" section later in this manual for the relevant code. A warning sound when the internal batteries become low will be heard however if the batteries are totally dead there will be no sound. If the appliance fails to operate on the hand set change the batteries in both the appliance and the hand set as this is the most common cause of failure.

It is recommended that only "Lithium" batteries are used in the remote system to ensure a long life. Never add old batteries as the alarm system will sound. It will only reset with new batteries.

NEVER USE OLD BATTERIES. THE BLACK BOX HAS A "MEMORY" AND WILL CONTINUE TO SOUND THE ALARM EVEN IF THE BATTERIES ARE CHANGED.

- **TO RESET THE ALARM:**
  - **TAKE OUT OLD BATTERIES AND WAIT 10 MINUTES**
  - **FIT A BRAND NEW SET OF LITHIUM OR ALKALINE BATTERIES**
  - **THE ALARM WILL RESET.**

General Installation Information

This fire is intended for decorative purposes. The installation must be in accordance with National Regulations and must be carried out by a qualified installer.

Clearances between the fire and all combustible materials must conform to National Regulations.

This fire must be installed and used in accordance with these instructions.
Prior to installation, ensure that the local distribution conditions (identification of the type of gas and pressure and the adjustment of the appliance) are compatible.

The builders opening or fireplace opening must be constructed of a non-combustible material.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

For some countries a purpose provided air supply must be fitted in accordance with National Regulations – United Kingdom = 100cm2

Any flue damper plate or flue restrictor must be removed or fixed permanently in the fully open position, or shall only be fitted in accordance with National Regulations.

The chimney must be swept before the appliance is installed. The unit must not be installed unless the chimney/flue length is at least the distance indicated on page 3 (minimum flue height).

Before the fire is installed a flue test in accordance with National Regulations should be carried out.

The gas connections must be in accordance with National Regulations.
An isolation valve, or valves, has to be fitted adjacent to the appliance which, when closed, allow(s) the complete burner and control assembly to be disconnected for maintenance or repair in accordance with National Regulations.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing devise. If for any reason any part of the pilot assembly is to be replaced ALL the assembly including the pilot burner, thermocouple, electrode and injector must be exchanged complete for an original manufacturer's pilot assembly only. This atmosphere sensing devise is not adjustable and must not be put out of action. The pilot light shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, do not use the fire, and have the flue and fire checked by a suitably qualified person.

It is recommended that a guard be used for the protection of young children, the elderly or infirm.

This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

After installation, the chimney should be inspected and swept regularly to keep the flue clear and free from debris and excessive build up of soot. The fire needs to be covered up when work is undertaken, to ensure the unit does not get damaged or gas outlets blocked.

Do not throw rubbish on the unit, as this will block or hamper its efficiency.

Due to the newness of the materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

Building and Installation Work

All building and gas installation should be carried out by a qualified and competent person, and must adhere to national and local legislations and regulations.

Before Starting

READ PAGE 4 FIRST

Building work should only commence after a thorough survey of the intended location of the impending installation has been completed and it has been established that the unit can be installed and operated without risk to the owner or tenants of the property or their neighbours.

Where existing chimney systems are to be used in conjunction with the FIRE RIBBON, they should have been swept and undergone thorough examination to ensure that they are in a sound and safe condition, as well as providing an adequate draw when the gas fire unit is in operation.

A simple smoke test will reveal whether or not the chimney is working correctly.

Check gas pipe work to ensure the correct flow rate for the appliance.

This fire is approved for use with a Class 1 or 175mm Flue System with either 2 metres for Natural Gas or 3 metres for LPG minimum length. If a flue system in excess of the specified length is used this may cause a very strong draw to occur which will result in the flame being effected. It is normal for the flame to be angled towards the back of the enclosure.

Burner ventilation must only be supplied via the air vent in the fascia. Once installed all additional gas inlet holes in the enclosure [not the front vent] must be sealed with metal tape to avoid flame reversal which will damage the remote.

The enclosure and flue must be sealed inline with building regulations.

Failure to ensure the correct flue and burner ventilation requirements are met as outlined in this manual will result in damage to the fire which is not covered by the warranty.

It is important that the gas supply is disconnected before any old existing surround and hearth is removed.

The Fire Ribbon enclosure should be located centrally to the existing flue / chimney at your desired height.

If the fire is not placed central to the chimney, the flame picture may pull incorrectly.

In some installations it is necessary to install a small lintel unit above the opening, if so an allowance must be made to accommodate the lintel. The Fire River does not have its own support lintel and a support lintel is not supplied with the unit.

VERY IMPORTANT – Before commencing any work check the type of fascia to be fitted.

For a Stone Fascia the enclosure front edge must sit 18mm out from the "finished wall" regardless of the type of enclosure.

For a Metal Fascia the enclosure front edge must sit flush with the wall, regardless of the type of enclosure.

Gas Supply

Consult the Data Plate within the appliance to ensure the correct gas type and pressure is available within the property. Before commencing to create the fire opening for the inglenook unit note that a gas supply is required. The gas supply pipe should run into the installed enclosure from either the rear, left or right hand sides, the gas supply is best run through the left side of the enclosure.

CHECK PIPEWORK FLOW RATE BEFORE INSTALLING

The fire has an 8mm inlet via an isolation valve. The fire also includes a pressure test point elbow to test inlet pressure. The gas pipe work should be routed into the enclosure via the available access holes. If the gas pipe work is over 1.5mtrs in length it is recommended that the pipe work is increased in diameter from this point to 15mm, 22mm and possibly 28mm depending on the length to the meter. This will ensure a stable gas supply. See Gas Consumption Page 3.

Room Ventilation

This fire needs an air vent supplying a minimum of 100cm2 free air into the room from outside. The air vent must comply with current building regulations.

Building Work

It is important that the gas supply is disconnected before any old existing surround and hearth is removed. Measuring from the floor surface, the intended location of the base of the enclosure unit is marked onto the wall. Allowances must be made for the steel gather, if required.

Note: The Fire enclosure should be located centrally to the existing flue / chimney at your desired height.

The area indicated on the wall must be removed to house the Fire enclosure and burner unit. In some installations it may be necessary to install a small lintel above the opening, if so an allowance must be made to accommodate this lintel. (The Fire does not have its own lintel).

After removing the excess brickwork to the required height, the base of the fire opening (which the Fire burner and enclosure will sit upon) has to be built.

To create a seal around the appliance and allow correct operation of the flu, the original fire opening must be closed using bricks or blocks, infill the void around the enclosure using block work or rubble. (It is advisable to install a solid base inside the fire opening to sit the steel framework supporting the burner unit on to.)

Burner Ventilation

"TRIMLESS" VERSION

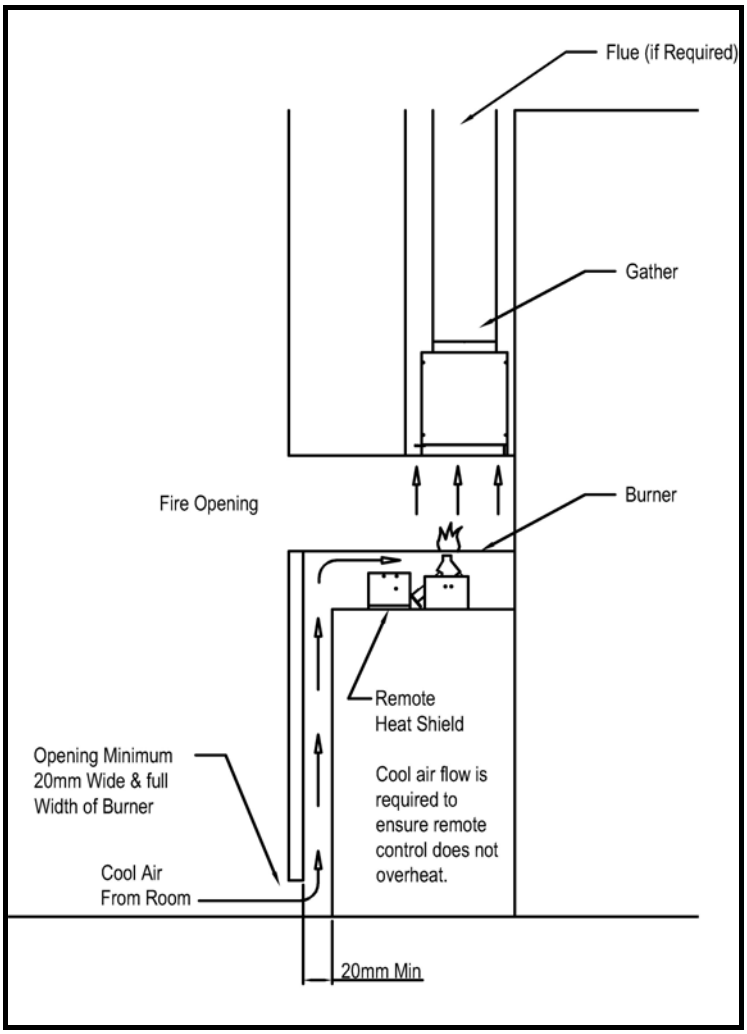
When installing the "trimless" version of the **Fire Ribbon** additional burner ventilation must be planned to provide fresh air into the burner box. This work should be planned before starting to install the fire. This additional burner air must be routed from "within the room the fire is installed" in to the burner box. Failure to observe this will result in serious heat damage to the remote system. This will not be covered by the warranty.

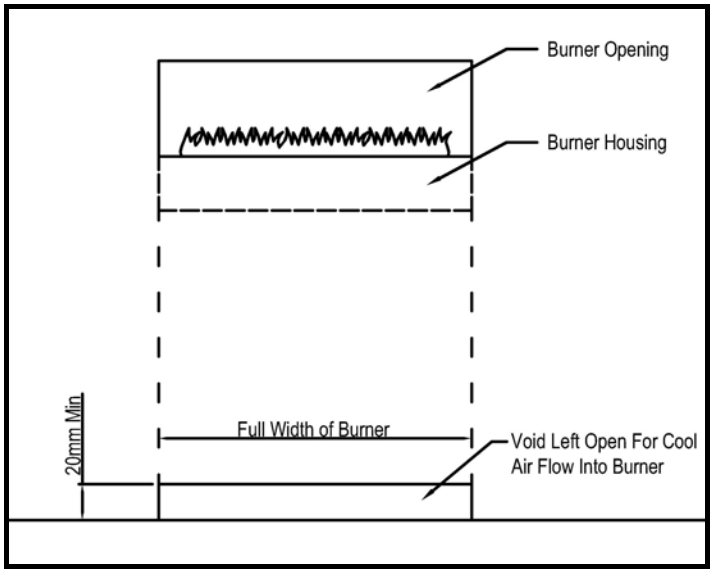
The normal way to do this is by creating a ducted space behind the plasterboard from the skirting level. The air vent must be at least 20mm deep and the full width of the burner flame. If it is positioned differently the flame will become unstable. The system must be sealed so that air can only travel in one direction. See the images on Page 17.

FIRE WITH STONE TRIM

If the Fire Ribbon is being installed with the stone fascia then review section on "fitting the stone fascia" as the burner air is provided by the fascia.

Front & Side View





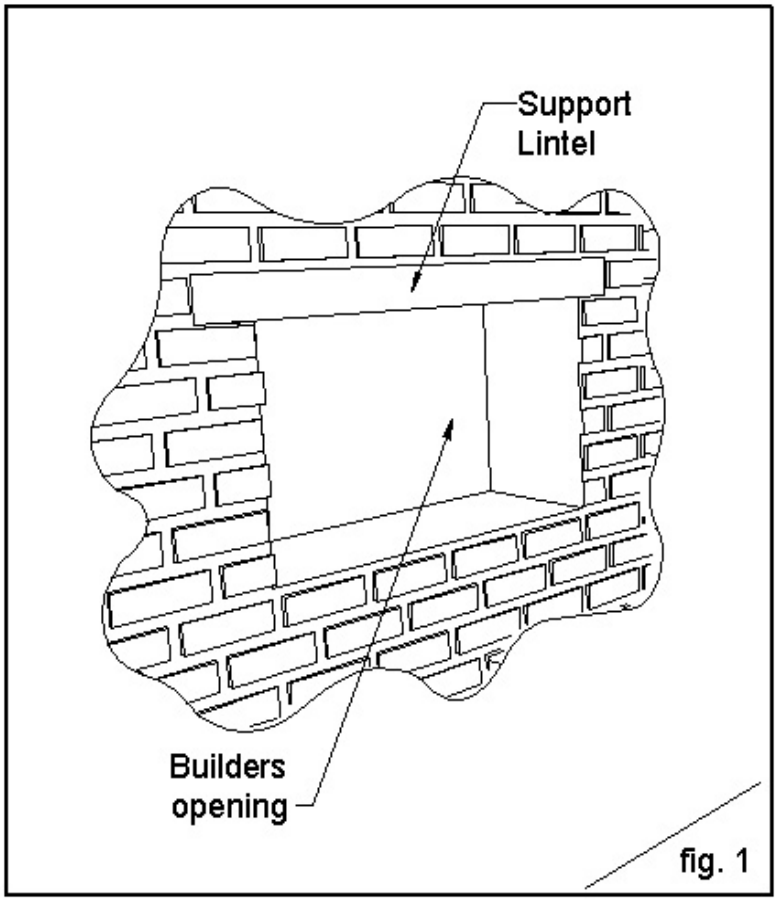
Installing the Polished Metal Enclosure

(For Stone Version go to page 21)

This fire is supplied with an enclosure and integral burner. The appliance is supplied with a fully tested and working gas burner. There is no need to dismantle or adjust the burner. Removal of any connections will result in the warranty being invalidated.

Great care must be taken when handling the burner to avoid damaging the remote system.

If using with the optional Gather, dry fit the gather to the enclosure taking note of where the gather and enclosure overlap. In some installations it may be possible to insert the gather into the opening and lift up to allow space to slide the enclosure in. This reduces the need for a very large builders opening.



The original fire opening must be closed, using bricks / blocks infill the opening to the required base of the burner, the void behind the brickwork should also be filled; block work or rubble can be used. (It is advisable to install a solid base inside the fire opening to sit the steel framework to).

See construction image to calculate builders opening.

The height is to be reduced and sealed once the unit has been fitted.

It is best to dry fit the Enclosure unit first to ensure clarity this can ensure a clear route for the gas.

Note: The front edge of the enclosure must be positioned as required for either a Metal or Stone Fascia – **see Pages 25-27**. The enclosure must be secured to the block work by screws and plugs through the base to ensure it cannot move. The burner must be secure within the enclosure.

Fitting the Gather Unit to Metal Enclosure

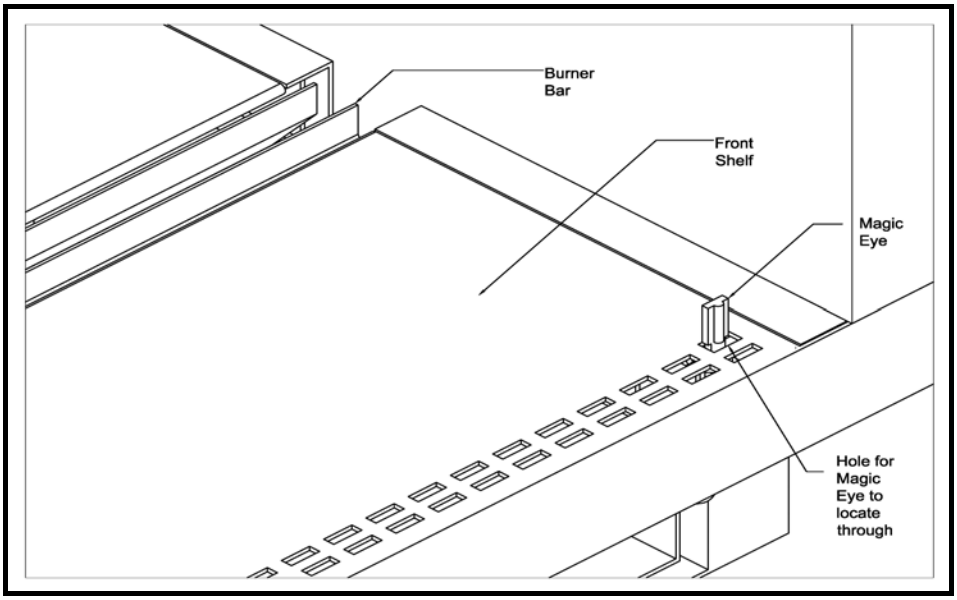
If the standard gather is not used, the flue must be connected to the enclosure in accordance with GAS SAFE and local regulation.

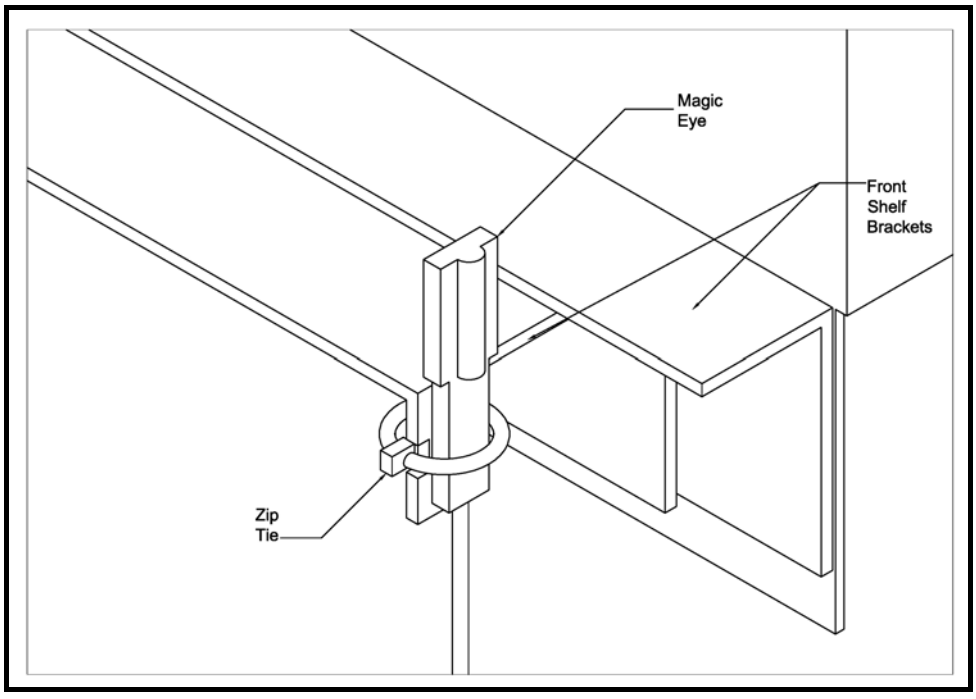
The gather has been designed to allow it to be inserted into the chimney opening and held up while the fire enclosure is installed. The gather must then be attached to the enclosure using the screws provided and sealed with fire cement. When using a flue liner the gather must be sealed to the liner by fire cement.

Gas and Battery Connection.

The gas line should now be connected to the 8mm inlet isolation valve. The battery pack should also now be connected ready for commissioning the burner. The front shelf is left off at this stage.

Fitting the Magic Eye (Metal Version)





The magic eye must be the correct way round (as shown above) to ensure "line of sight" and correct operation.

The burner should be tested for safe operation and gas leaks. For instruction on how to light the fire see the user section on **page 50**

Once tested the front shelf vanity cover should be fitted taking care not to scratch the enclosure.

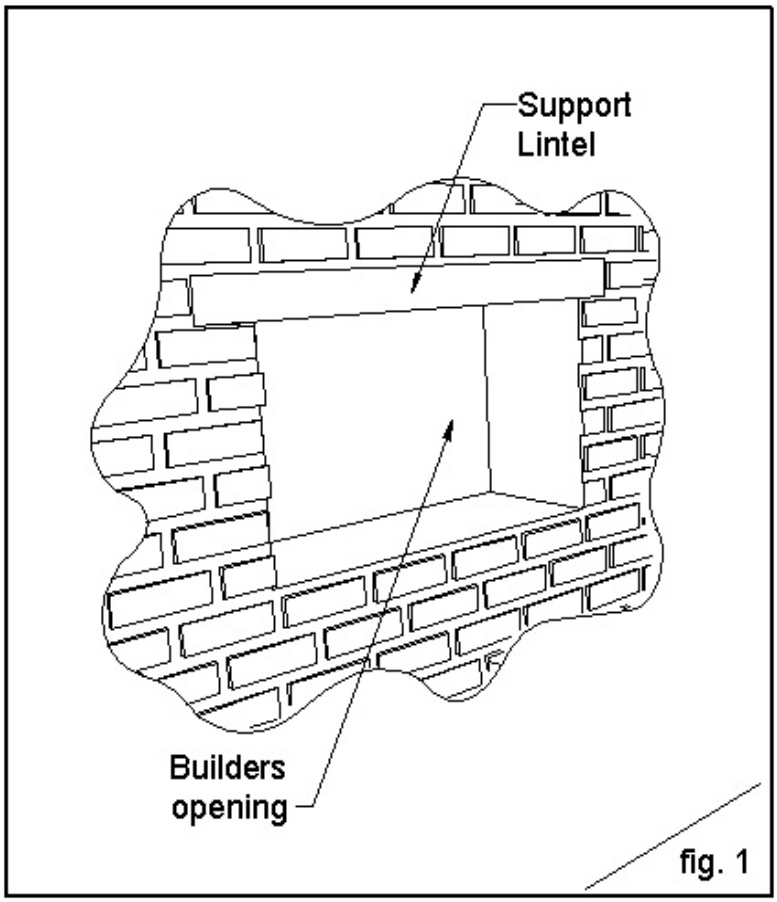
Installing the Stone Enclosure Version

(For Metal Version go to page 18)

This fire is supplied with an outer metal enclosure and integral burner. The stone lining is then fitted after the metal enclosure [and optional gather] is fully installed. The appliance is supplied with a fully tested and working gas burner. There is no need to dismantle or adjust the burner. Removal of any connections will result in the warranty being invalidated.

Great care must be taken when handling the burner to avoid damaging the remote system.

If using with the optional Gather, dry fit the gather to the enclosure taking note of where the gather and enclosure overlap. In some installations it may be possible to insert the gather into the opening and lift up to allow space to slide the enclosure in. This reduces the need for a very large builders opening.



The original fire opening must be closed, using bricks / blocks infill the opening to the required base of the burner, the void behind the brickwork should also be filled; block work or rubble can be used. (It is advisable to install a solid base inside the fire opening to sit the steel framework to).

See construction image to calculate builders opening.

The height is to be reduced and sealed once the unit has been fitted.

It is best to dry fit the Enclosure unit first to ensure clarity this can ensure a clear route for the gas.

Note: The front edge of the enclosure must be positioned as required for either a Metal or Stone Fascia – **see Pages 25-27**. The enclosure must be secured to the block work by screws and plugs through the base to ensure it cannot move. The burner must be secure within the enclosure.

Fitting the Gather Unit to Stone Enclosure

If the standard gather is not used, the flue must be connected to the enclosure in accordance with GAS SAFE and local regulation.

The gather has been designed to allow it to be inserted into the chimney opening and held up while the fire enclosure is installed. The gather must then be attached to the enclosure using the screws provided and sealed with fire cement. When using a flue liner the gather must be sealed to the liner by fire cement.

Gas and Battery Connection.

The gas line should now be connected to the 8mm inlet isolation valve. The battery pack should also now be connected ready for commissioning the burner.

Fitting the Stone Enclosure

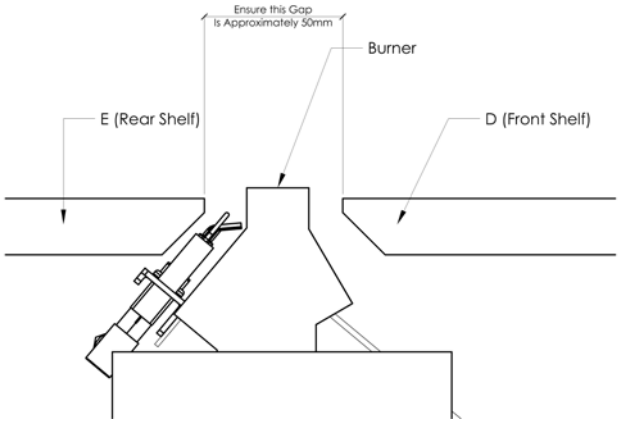
Check the drawing on Page 9.

Check the parts list on Page 8 and note the polished and unpolished faces of the stone. Handle the stone with care. It is easily damaged.

PART A: The rear piece must be fitted first. It is slotted into the top groove then laid back on to the rear wall, taking care not to damage the pilot assembly.

PART B&C: The side pieces are slid in from the front using the groove at the top as a guide.

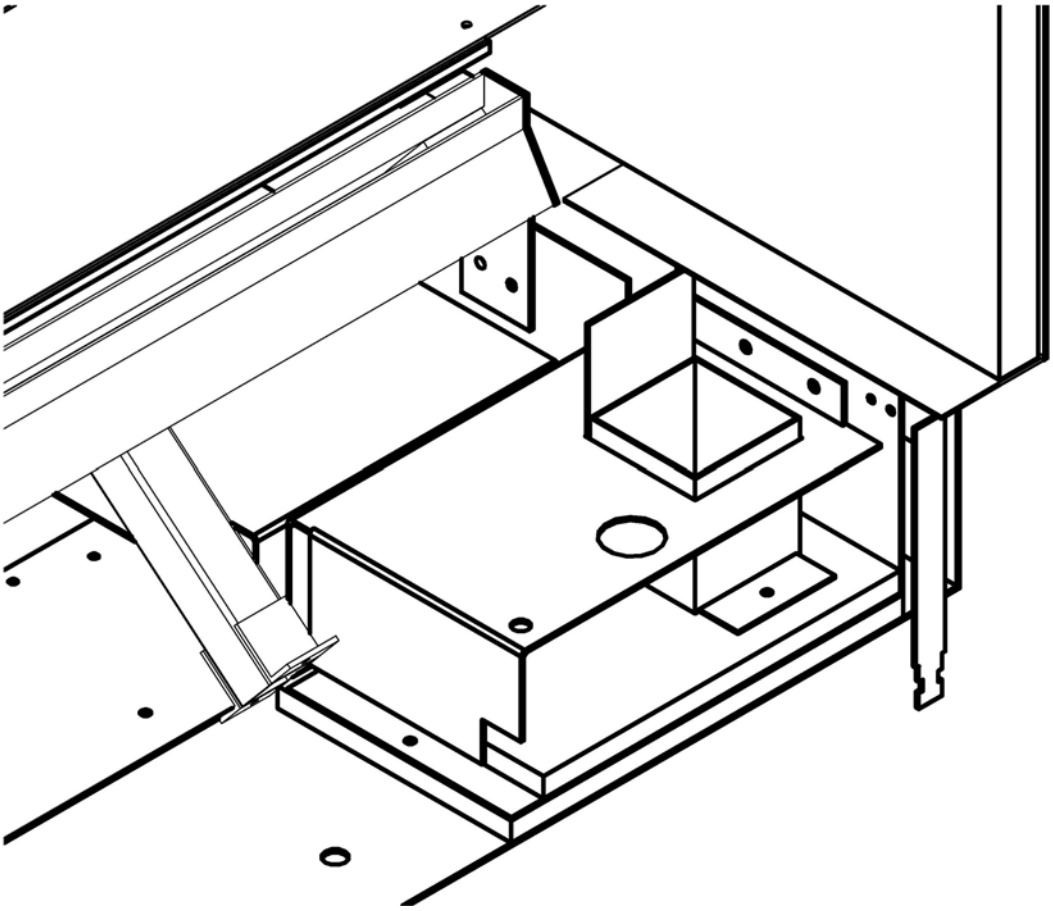
PART D & E: Fit the rear shelf first taking not that the chamfered edge must be on the burner side on the bottom. The front shelf Part D. is fitted the same however it is best to leave this off until the appliance is commissioned.



PART F&G: The two small pieces are used to fill the gaps in between the front and rear shelf at the end of the burner bar.

Fitting the Magic Eye (Stone Version)

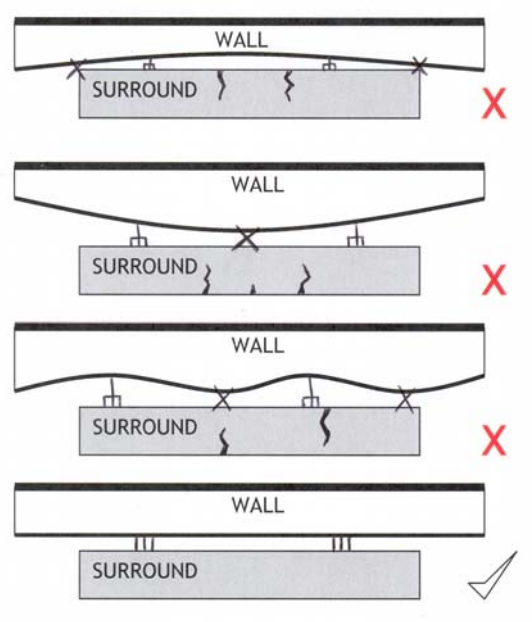
The fire is supplied with a special bracket fitted to the magic eye. This must be screwed to the right hand side of the burner as shown in the image above. This allows the eye to protrude below the lower edge of the fascia.



The magic eye must be the correct way round (as shown above) to ensure "line of sight" and correct operation.

FITTING THE FASCIA [BOTH FIRE TYPES]

Preparing to Fit The Fascia



The Fascia can now be fitted providing the wall surface is perfectly level both vertically and horizontally. See image left.

Important - If the wall is not level, the wall should be skimmed until level.

This shows positive areas that can cause fractures in the facia / surround if fitted to a wall of uneven surface.

Failure to fit the fascia to a flat wall will cause serious damage to the fascia which is not covered by the warranty.

Fitting the Stone Fascia

Stone Fascia Hanging Bracket Positioning

Note: the Enclosure on the Stone Fascia Version must protrude by a total of 18mm from the wall. If this is not done flame performance will be affected and possible enclosure and burner damage will occur. This is NOT covered by the warranty.

The Wall bracket is supplied in 2 pieces. The first part is bonded to the stone at the factory. The second part is fixed to the wall. The fascia is supplied with the wall bracket attached. Remove the 4 cross headed screws, remove the wall bracket and put the fascia and screws in a safe place. Ensure the wall is flush before fitting the fascia. Position the wall bracket as shown below. Measure the dimension as shown below from top of enclosure lintel to the top edge of the wall bracket. The fascia is very heavy and the wall bracket must be secured into a solid surface using suitable screws & rawl plugs to ensure it cannot fall or be pulled from the wall.

Ventilation Air Intake.

For the burner to work correctly there should be an air intake cut-out below the front shelf as shown in the above image. This air void provides burner ventilation to ensure the flame remains stable and the remote system remains cool. The Air Flow is provided via the from fascia lower intake. Failure to ensure this will result in serious damage to the remote system. This damage is not covered by the warranty.

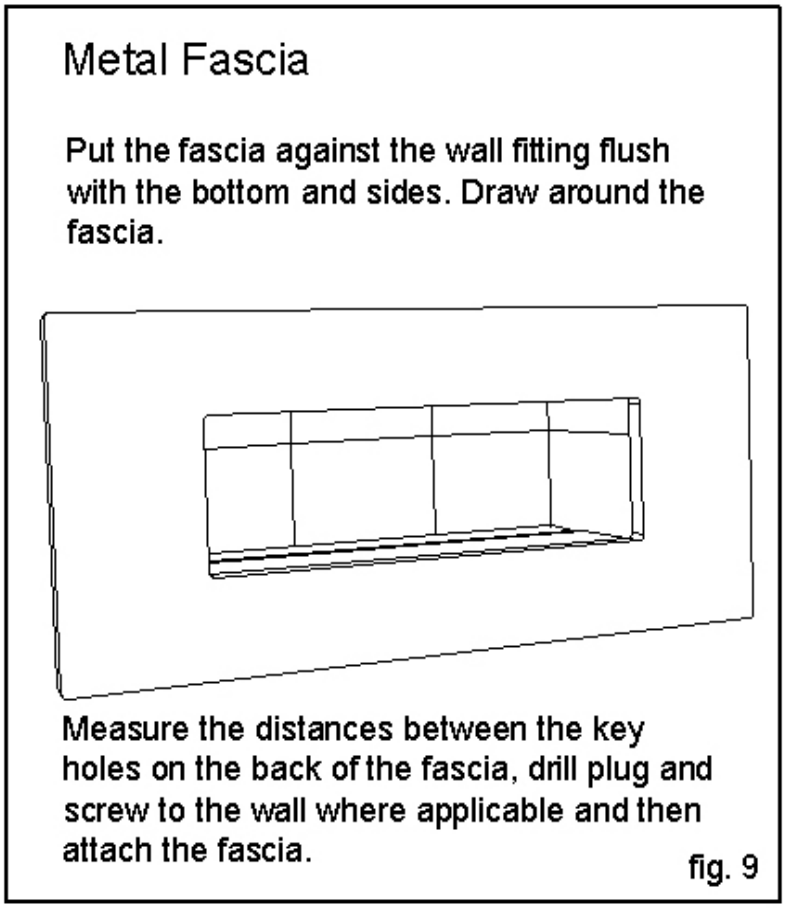
Hanging the Stone Fascia.

With the help of an assistant, lift the fascia into place. Unclip the remote magic eye and plug into the remote control (as shown on wiring diagram).
Once the remote is attached lift the fascia on to the wall bracket. Refit the 4 cross headed screws and ensure fascia is secure.

WARNING: The fascia must never be sealed or built flush into the wall. The Fascia has an air vent at the lower edge. This with Air Intake provides ventilation to the burner unit. If this is blocked or the fascia not fitted in the way shown then serious damage to the burner and remote system will result. This damage is NOT covered by the warranty. See image below.

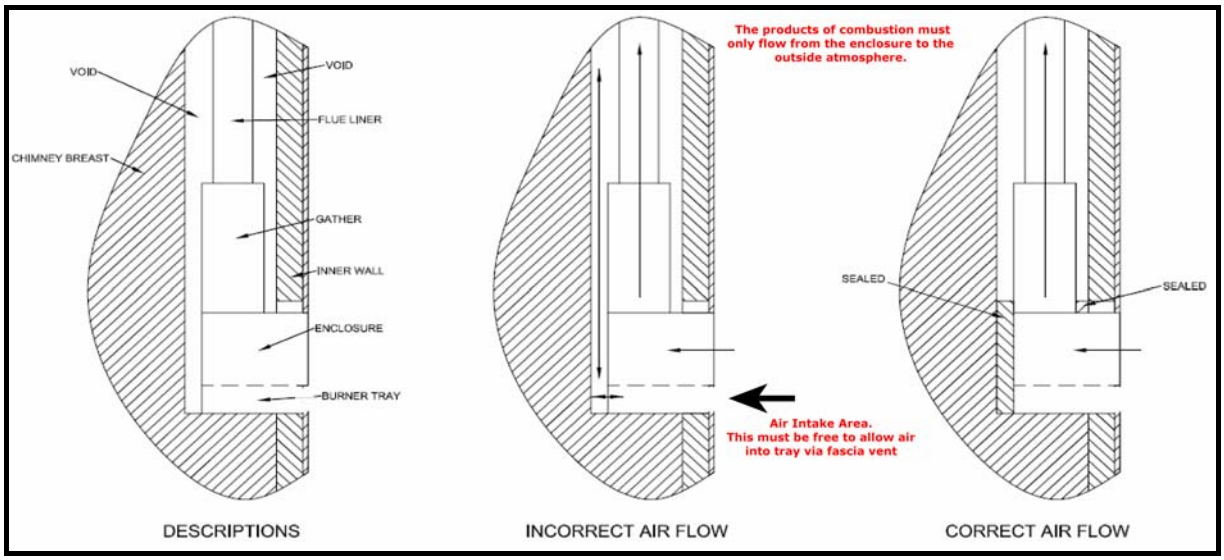
Fitting the Metal Fascia

- See information above for details of the Air Intake requirements.
- **WARNING:** the Enclosure on the Metal Fascia must be flush with the wall before attempting to fit the fascia.
- Put the fascia against the wall so that the lower edge is level with the shelf.
- Draw around the fascia.
- Remove fascia and turn over.
- Measure positions of screw key holes and mark this onto the wall.
- Drill and Plug holes. Fit Suitable Screws to a depth to ensure the fascia locks against the wall when fitted.
- With the help of an assistant, lift the Fascia towards fire.
- Unclip the remote magic eye and plug this into the remote box as shown on the wiring diagram.
- Lift fascia onto the wall until key holes line up then pus fascia down to lock in place.
- **WARNING:** The fascia must sit off the wall a total of 40mm. It must never be installed "flush" into the wall or plaster. The fascia has an air vent which runs along the bottom. This plus the specified air intake area ensure the burner and flame perform as required. Failure to do this will result in serious burner damage and this is NOT covered by the warranty.


Metal Fascia
Put the fascia against the wall fitting flush with the bottom and sides. Draw around the fascia.
Measure the distances between the key holes on the back of the fascia, drill plug and screw to the wall where applicable and then attach the fascia.
fig. 9

Commissioning the Fire

This appliance requires a specific amount of ventilation to function as designed (correct flame picture), therefore any unused utility access points in the burner tray must be sealed with Aluminium foil tape.



When installing the enclosure into an existing chimney or with a flue liner the enclosure & gather must be sealed to the existing chimney to ensure that air cannot flow behind the enclosure (flame reversal). Failure to do this will result in serious damage to the burner unit and enclosure. This damage is not covered by the warranty.

The Fascia has a slot in the lower section which allows air into the burner. This must not be blocked. The fascia must not be recessed into the wall. It must be fitted as instructed. Ignoring this will result in burner damage not covered by the warranty.

WARNING: The burner inlet flow rates are factory set and sealed. Under no circumstances should these settings be changed. The aeration is fixed. Do not change the burner aeration. This fire must not be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system which will not be covered by the warranty.

The burner is also tested to 150mBar to ensure there are no gas leaks in the burner. Do not adjust any fittings within the fire.

Use the commissioning sheet on page 32 completing each section in turn. Refer to the "lighting the fire" section later in this handbook to learn the remote system and sequence. To commission the appliance follow the below steps fully.

CHECK THE GAS PRESSURE

- Record your findings in the sheet on page 32
- The appliance is supplied with a pressure test elbow and gas tap. See Image Below. Connect an 8mm gas supply to the tap. Ensure the gas tap is in the open position. Remove the screw from the test point within the appliance and connect a manometer. With the appliance off check for gas soundness in the supply circuit. If there is a pressure drop correct the pipe work before continuing.
- The appliance requires 6 x "AA" Lithium batteries to operate. Using lower quality batteries is not advised. The Battery Pack is disconnected when supplied to increase the life of the batteries. **Reconnect the battery by plugging in the socket.**
- The appliance is supplied with an Infra-Red Remote Control Unit which is operated via a hand set and magic eye positioned on the right hand side of the enclosure.
- Read the section "lighting the appliance" and using the handset start the fire. There is a 10 second period where the fire will spark. If the pilot does not light repeat the test until the gas line has been purged.
- Once lit turn the fire off again and ensure the manometer is fitted as shown in the image. You will now start a set of tests which will confirm the fire is installed safely. **It is very important that this test is performed as stated to ensure the appliance is safe and reliable.** The inlet supply pressure must be within (+/- 1mb) of the pressure stated on the Data Plate. For example a 20mBar NG appliance must read between 19mbar and 21mBar.
- **TEST 1** – Fire Off – what is the standing pressure – is it within spec?
- Now light the fire again and while it is operating on Pilot Only.
- **TEST 2 –** Fire on Pilot – Record gas pressure – is it within spec?
- The fire will open on to Full, let it run for 5 minutes.
- **TEST 3 –** Fire on Full - Record gas pressure – is it within spec?
- Now light all other gas appliances in the home and run tests 1-3 again.
- Record your results in the check sheet.

- THE PRESSURE AT ALL TIMES MUST BE WITHIN 1MBAR OF THE DATAPLATE READING

TEST POINT WITHIN THE FIRE MUST
BE USED TO COMMISSION THIS
APPLIANCE. FAILURE TO DO THIS
MAY RENDER THE APPLIANCE
DANGEROUS AND UNRELIABLE.

- **IF THE TEST FAILED:** If it is not possible to maintain the pressure at the required level, TRANSCO, BORD GAIS or the propane supplier must be called to adjust the governor to the house before the appliance can be commissioned further.

- **IF THE TEST PASSED:** Disconnect the pressure gauge, replace the pressure test point sealing screw and test the appliance for gas soundness. Insert the front shelf.

CHECK THE FLUE SYSTEM

- Turn the appliance to the maximum setting. Leave the appliance for 10 minutes and then test that all the products of combustion are entering the flue by traversing the perimeter of the fireplace opening or canopy using a smoke generator e.g. smoke matches.

COMPLETE THE COMISSIONING

- The customer should be shown in detail how to operate the appliance and the installation and user manual given to the customer.
- The customer must also be made aware that the appliance must be serviced every 12 months and that chimney or flue system should be checked regularly to ensure the appliance operates at optimum performance.
- The customer must be told not to block the room air vent.
- The warranty card is to be completed by the registered engineer who has commissioned the appliance. This is to validate the warranty. The card must then be given to the customer for return to the factory.

Final Check List

- **Are the Flue & Enclosure sealed to ensure no air can travel around the sides or back of the enclosure?**
- **Are all other access holes in the burner tray sealed with metal tape?**
- **Is the heat shield fitted?**
- **Has the customer being shown how to operate the appliance?**
- **Has the customer been shown how to replace the handset and main appliance batteries?**
- **Has the commissioning sheet on page 32 been completed?**
- **GIVE THE BOOKLET TO THE CUSTOMER.**
- **GIVE THE WARRANTY CARD TO THE CUSTOMER.**

If you have any questions, or the fire is not operating correctly, contact the manufacturer on 01325-327221 before you leave the installation.

If the appliance is not fitted in strict accordance with these instructions, CVO cannot be held responsible for any damage caused and reserve the right to charge for any corrective work.

CVO Commissioning Checklist

Important Notice

Explain the operation of the appliance to the end user, hand the completed instructions to them for safe keeping, as the information will be required when making any guaranteed claims.

Flue Check	Pass	Fail
1. Flue is correct for appliance		
2. Flue Flow test		
3. Spillage test		
Gas Check		
1. Gas soundness & let by test		
2. Standing pressure test		
3. Appliance working pressure (on High Setting) NB All other gas appliances must be operating on full		
4. Gas rate		
5. Does ventilation meet appliance requirements		

Dealer and Installer Information

Dealer.....

.....

.....

Contact No.....

Date of Purchase.....

Model No.....

Gas Type.....

Installation Company.....

.....

.....

Engineer.....

Contact No.....

Corgi Reg No.....

Date of Installation.....

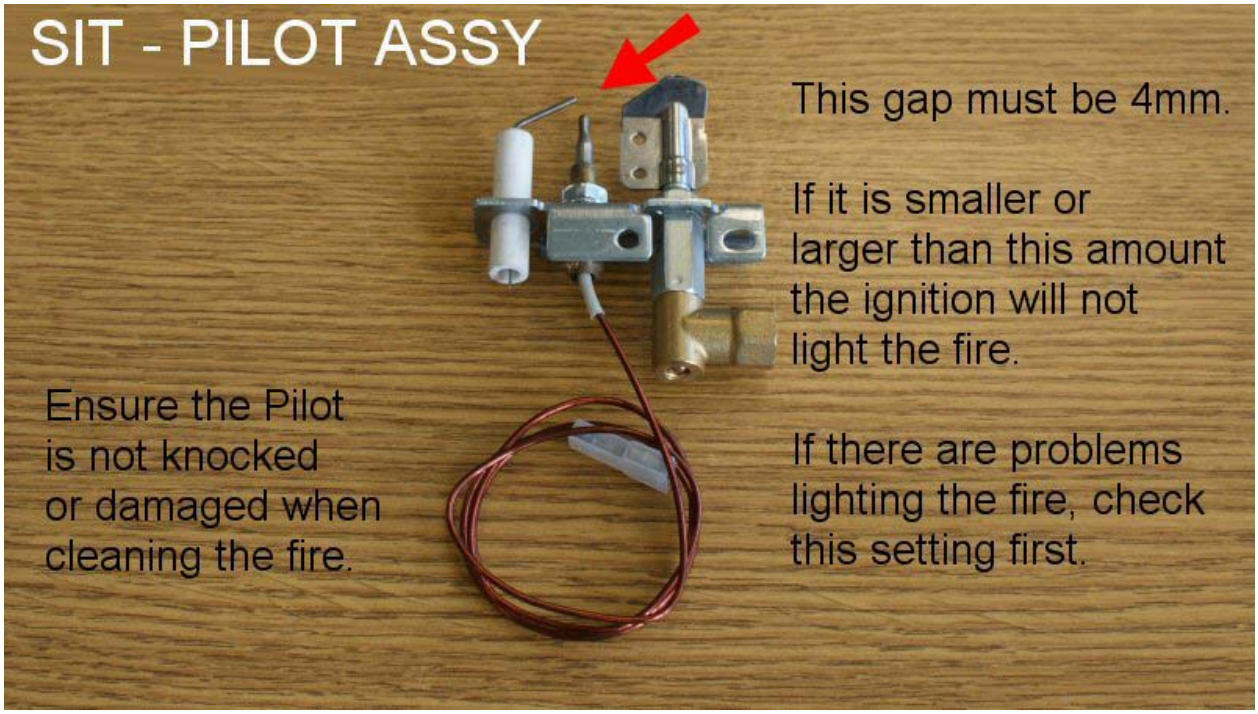
This product is guaranteed for 1 year from the date of delivery, as set out in the terms and conditions of sale of CVO. This guarantee will be invalid, to the extent permitted by law, if the above Commissioning Checklist is not fully completed by the installer.

Oxygen Depletion Pilot System

There is a highly sensitive oxygen depletion sensor designed into the pilot light. If any part is damaged the entire unit must be replaced. Do not attempt to bend or alter the flame head, thermocouple or aeration hole. Use only genuine spare parts as similar looking parts from other appliances may well give different or inferior performance and could lead to a hazard.

Spark / Ignition Failure

The gap between the pilot electrode and the pilot should be 3.5 – 4.5mm and normally adjustment is not necessary (the electrode is very brittle). The spark should jump across the gap between the electrode and the gas outlet on the pilot head. If the ignitor fails, a lighted taper can be inserted into the pilot area to check that gas is reaching the pilot.


SIT - PILOT ASSY
This gap must be 4mm.
If it is smaller or larger than this amount the ignition will not light the fire.
Ensure the Pilot is not knocked or damaged when cleaning the fire.
If there are problems lighting the fire, check this setting first.

Burner Flame

The flame on this type of appliance is normally directed towards the rear of the enclosure. This is normal due to the opening size and flue system. The flame will never stand "upright". It is to be expected that over time the surface on the rear of the enclosure will tarnish. This is typical "wear and tear" for a gas fire.

If the flame is drawn under the shelf this highlights a serious installation fault and the appliance must not be operated until the cause is found. A typical cause would be unsealed burner holes or failure to seal the enclosure and flue (flame reversal). Any resulting damage is not covered by the warranty which covers "defective" parts only.

Warning: Fire Guards & Hearths

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised

It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.

The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame.

In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

Fault Diagnosis/Troubleshooting

Every CVO fire is tested in the factory and give a 40 point check to ensure it operates correctly. It is highly unlikely it would not operate when installed as designed.

The biggest cause of installation problems with this fire are caused by incorrect GAS PRESSURE. This is normally due to ignoring the instructions in the section "READ THIS FIRST" where is clearly states to check the gas pipe work before installing the fire. This is a 12kw appliance and needs a very strong gas supply that is maintained at within 1mBar of the appliance setting.

NATURAL GAS = 19mBar to 21mBar.
LPG = 36mBar to 38mBar.

If the commissioning procedure is not followed and the fire is left to run with the wrong gas pressure the fire will:

1. **Fail to light.**
2. **Light for a few seconds.**
3. **Shut down unexpectedly.**
4. **Have a low flame.**
5. **Have a yellow flame.**
6. **Cause sooting in the enclosure.**

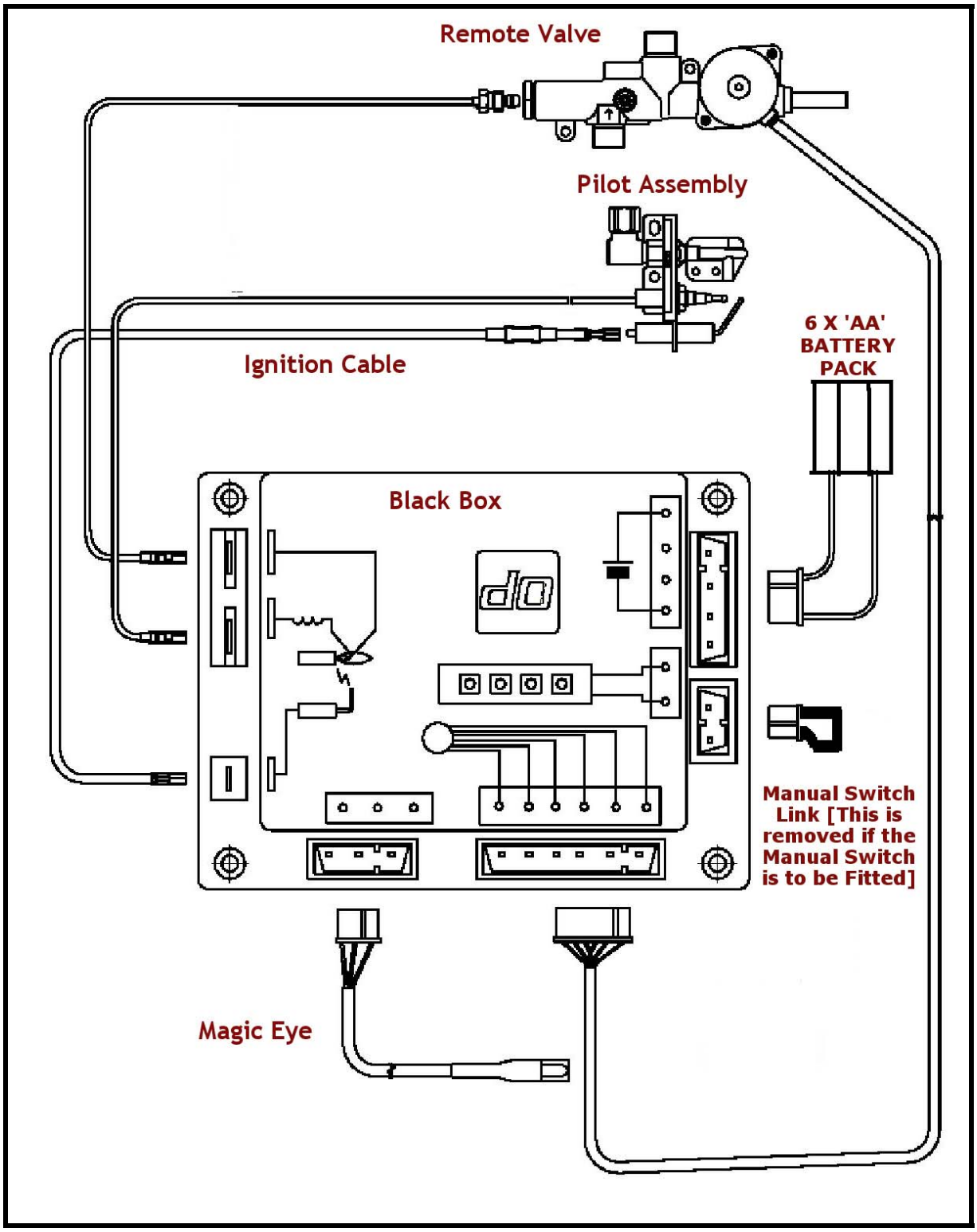
Other areas to check during installation are:

1. **Has the pilot been knocked and the gap too large?**
2. **Are the batteries fitted properly?**
3. **Is the magic eye positioned correctly?**
4. **Is the flue operating correctly without reverse drafts or air leaks?**

Quick Reference Fault Diagnosis

Symptom	Check List	Tick
The system "beeps" all the time.	There is a fault diagnosis system built into the battery remote. The remote gives out a sequence of "beeps". This is a code which indicates a fault. See page 38 for details.	
Appliance clicks but no spark or weak spark.	Check spark lead is connected properly.	
	Check spark electrode is in the correct area and the gap correctly distanced to the pilot.	
Appliance sparks but does not light pilot.	Check for a good spark. Check the spark is in the right area.	
	Check that the ventilation is not too strong and drawing the gas away from the pilot.	
	Check that there is gas at the input and at the pilot. Check that remote valve is operating correctly.	
If there is no gas.	Check isolation tap/shut off is open.	
	Check for blockages in the gas pipes.	
If there is gas but pilot does not light	Check for a good spark.	
	Check the spark is in the right area.	
	Check that the ventilation is not too strong and drawing the gas away from the pilot.	
	Check the pilot gas slot is clear.	
Pilot lights but does not light main burner	Check the pilot flame is heating the thermocouple.	
	Check the thermocouple nut is properly tightened into the valve.	
	Check that the pilot lights early on ignition clicks.	
	Check ventilation is not too strong and drawing the pilot flame away from the thermocouple.	
Burner lights but turns off after a few minutes	When using LPG Bottles ensure bottle is not empty. To run this appliance on bottles a minimum of 2 x 47KG bottles with a changeover valve is required. The bottles must have a suitable regulator.	
	Check thermocouple nut is properly secured to the valve.	
	Check ventilation is not too strong and the flame is not blowing off the thermocouple.	
	Check gas pressure is correct and maintained at constant level – especially with other appliances in the home working.	

Remote Control Components


Remote Valve
Pilot Assembly
Ignition Cable
6 X 'AA' BATTERY PACK
Black Box
Manual Switch Link [This is removed if the Manual Switch is to be Fitted]
Magic Eye

Battery Remote System – Alarm Sequence

This fire is operated via a battery remote system with AA batteries. The remote system has a built in alarm system which indicates and faults which may arise. This is shown by a sequence of a pre-defined number of "beeps" corresponds to a certain failure. NOTE: There are two types of black box fitted to this type of appliance. See the black box to identify which one is fitted to your fire.

BLACK BOX – IR

Alarm sound description

3 x beeps – Manual Wall Switch Keyboard Failure
Substitute the keyboard with another one and verify the sound alarm stops.

4 x beeps – Valve Motor Failure
Substitute the valve with another one. Repeat the ignition sequence and verify the sound alarm stops.

5 x beeps – Driver Leakage [Black Box Faulty]
Substitute the board: the motor drive circuit is damaged. Execute an ignition sequence and verify there's no sound alarm.

6 x beeps – Under Voltage Low battery
Substitute the battery with a new one and verify the sound alarm stops. Before inserting the new battery pack, remove the old one and wait until the sound disappears. Wait at least 2 minutes before adding the new batteries. If the sound is still present after adding new batteries, execute an ignition sequence.

7 x beeps – Low Battery
Substitute the battery with a new one and verify the sound alarm stops. Before inserting the new battery pack, remove the old one and wait until the sound disappears. Wait at least 2 minutes before adding the new batteries. If the sound is still present after adding new batteries, execute an ignition sequence.

Only use high quality Alkaline or Lithium batteries in the appliance and hand set to ensure a long and reliable life. NEVER USE old batteries, the set must be replaced as a complete set of new batteries.

Service and Aftercare Requirements

When completing the annual service of the unit, refer to the enclosed technical installation and operational manual & the remote control instruction document.

The gas unit should be installed to the manufacturer's instructions by a Gas Safe registered gas installer, every 12 months the gas fire unit should undergo a regular service, this work should be carried out by a competent person who is Gas Safe registered, familiar with the CVO Fire range of goods.

When carrying out the annual service, the competent person should examine and verify the following;

- The correct safe operation of the ODS (oxygen depletion system)
- That the fire unit correctly cross-lights
- A pressure drop test to verify that there are no gas leaks
- That the electronic ignition system operates correctly
- That the burner surface is free from damage and debris
- That the owner has a copy of the installation and operation manual

Servicing Instructions

General

CVO Recommend that this appliance is serviced every 12 months by a GAS SAFE Engineer.

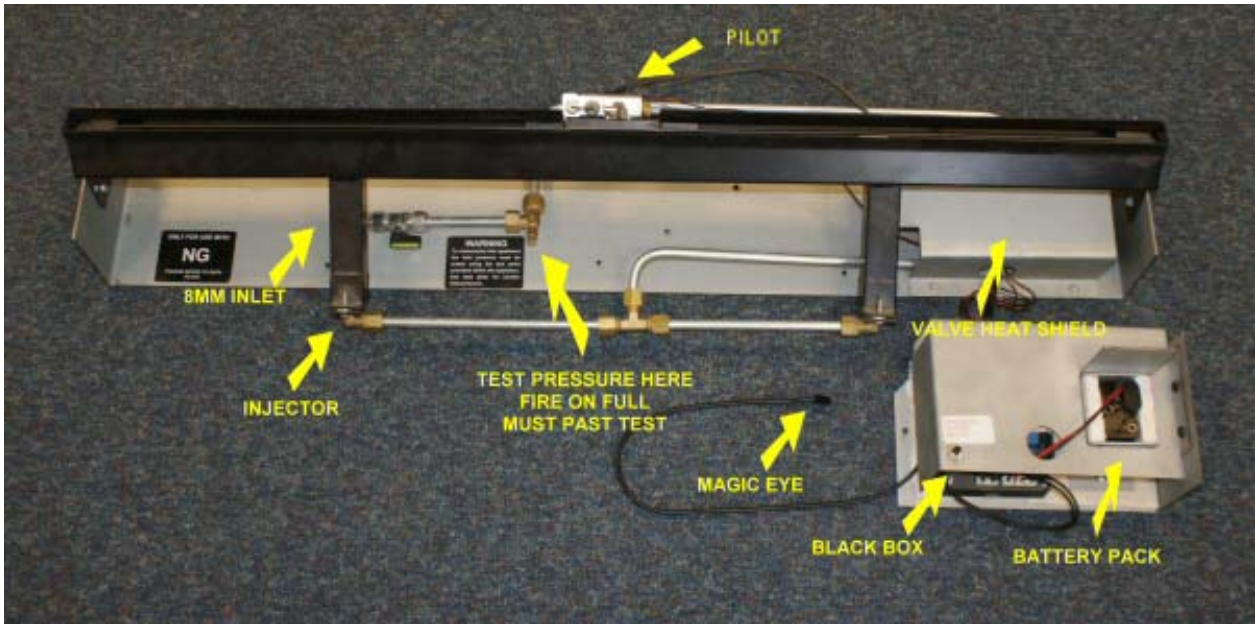
The following servicing procedure should be carried out regularly and only by a qualified person.

Note: foreign bodies, which can gather on the surface of the burner unit, it is inevitable that servicing can be a dusty operation. Suitable precautions should be taken.

Important: The pilot and flame sensing device fitted to this fire is also an atmosphere sensing device. If for any reason any part of the pilot assembly is to be replaced, the entire assembly including the pilot burner, thermocouple electrode and injector must also be exchanged. This atmosphere sensing devise is not adjustable and must not be disabled.

Servicing Procedure

- Turn off the fire and allow cooling time.
- Turn off the gas supply at the isolation tap.
- Remove the fascia.
- Using a Phillips style *screwdriver*, loosen the screws on the mixer tube then undo the injector nut, and remove the injector.
- Clean the injector and remove blockages. Do not use a needle or wire, as this may widen the journals, which are set to the C V O test standards.
- Using a soft brush or vacuum cleaner, carefully remove any debris from the burner unit.
- Make sure the pilot journals are clear and free from dirt.
- Re-assemble the fire in the reverse order, and re-connect the gas supply then check for soundness.
- Check the pilot for a good flame.
- Re-commission the fire (See section earlier in this booklet).



For Spare Parts please call 01325-327221 and ask for customer service.

Exchangeable Components List

CVO Part Code	Item Description	Gas Type	Code Number	Qty per Fire	Engineer Exchange Parts	User Exchange Parts
Injectors						
AC002	1.60mm	LPG	160	2	Yes	No
AC080	1.25mm	LPG	125	2	Yes	No
AC004	090	NG	090	2	Yes	No
AC021	460	NG	460	2	Yes	No
AC063	440	NG	440	2	Yes	No
AC069	340	NG	340	2	Yes	No
AC096	300	NG	300	2	Yes	No
Pilot Assembly						
AC001	NG Pilot	NG	SIT9103	1	Yes	No
AC058	LPG Pilot	LPG	SIT9272	1	Yes	No
Remote Parts						
GC049	Black Box	BOTH	30106850000	1	Yes	No
GC050	Remote Valve	BOTH	81104711000	1	Yes	No
GC032	Ignition Cable	BOTH	30106600401	1	Yes	No
GC012	IR Sensor	BOTH	30106600010	1	Yes	No
GC052	IR Handset	BOTH	30106800101	1	Yes	Yes

Other Remote Control Parts are available upon request.

Call 01325-327221 and ask for Customer Services to order spare parts. We can email a set of images to confirm the parts required.

As indicated above parts must be changed by a qualified gas engineer. When calling you will be requested to provide both the serial number of the fire and gas safe registration number of the person who will carry out the repairs.

Fitting Spare Parts

There are no "user" replacement parts available for this fire. Spare parts are not returnable. CVO Fire cannot accept responsibility for incorrect parts being ordered. When ordering replacement components or requesting technical assistance, you should at all times quote the following:

- Type of fire & Gas supply (LPG or NG) as shown on Data Plate
- Unit serial number as shown on Data Plate or front of booklet.
- Component part number or description of fault

The fitting of replacement parts must be carried out by a qualified GAS SAFE Engineer inline with current regulations. When removing any parts from the remote system these should be replaced in the same manner using the "schematic diagram" in this booklet. When changing the injectors or pilot great care must be taken to assemble the parts in the correct manner to ensure the fire functions as designed.

Burner Removal

Removal of the burner during installation will invalidate the warranty. Speak to our technical department.

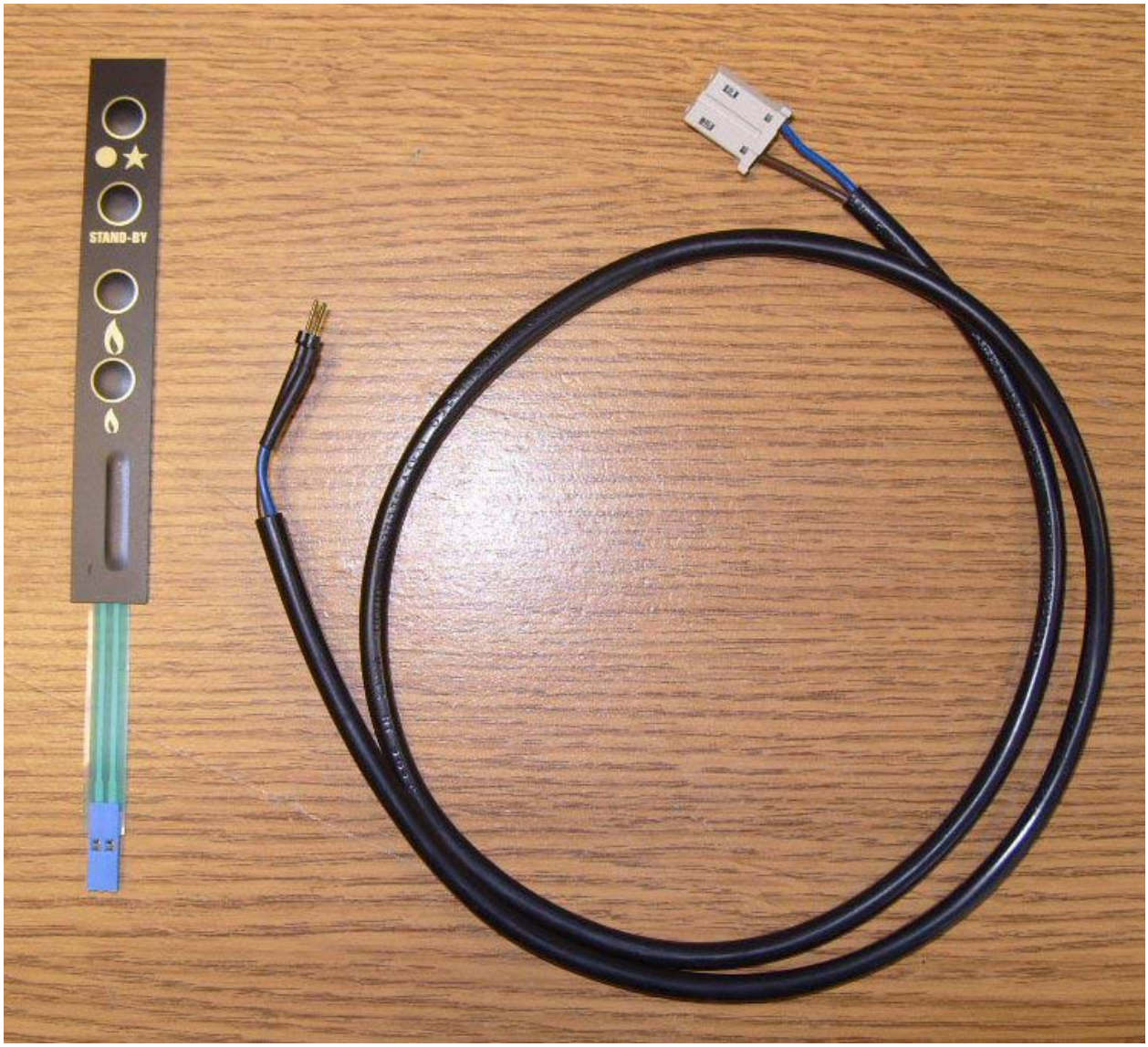
If the burner needs to be removed at anytime for repair follow the steps below:

- Remove the front shelf.
- Remove the 2 cross headed screws on each side which hold the front shelf mounting brackets to the enclosure.
- Disconnect the gas and electricity supply.
- The burner carriage is screwed to the bottom of the enclosure by 2 screws. Once removed the full burner assembly will lift out.
- Refit is the same procedure in reverse.
- The fire should be commissioned once refitted.

Fitting the Optional Wall Switch

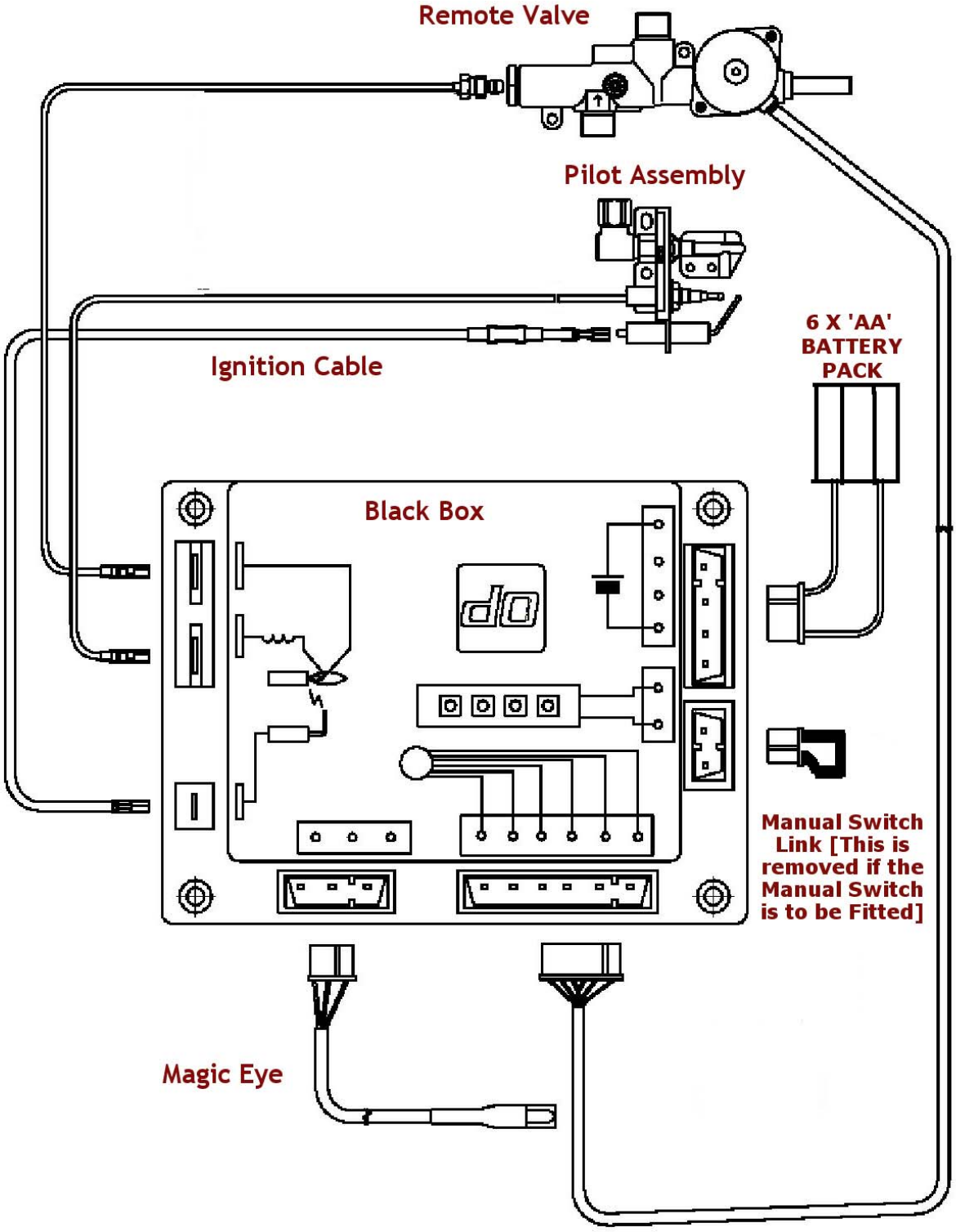
Important

This work must be carried out by a GAS SAFE REGISTERED ENGINEER.



Remote Diagram

Take some time to review the attached diagram


Remote Valve
Pilot Assembly
Ignition Cable
6 X 'AA' BATTERY PACK
Black Box
Manual Switch Link [This is removed if the Manual Switch is to be Fitted]
Magic Eye

NOTE THE POSITION OF THE "LINK"

INSTRUCTIONS

1. Use the gas isolation valve to isolate the gas.
2. Taking care not to damage any components on the circuit board remove the heat shield.
3. Note the position of the link in the circuit diagram.
4. Gently remove the link and replace this with the wall switch cable.
5. Route the cable as require ensuring that it is kept away from hot surfaces.
6. Secure the wall switch in the required place and connect the cable.
7. Refit the heat shield on the remote system.
8. Reconnect gas
9. Review the section on "lighting the fire" to ensure the wall switch operates correctly.
10. Operate fire as normal.

VERY IMPORTANT NOTE

If the link "or" the wall switch is not fully connected to the remote the remote system will not work.

To confirm:

THE LINK MUST BE FITTED

Or

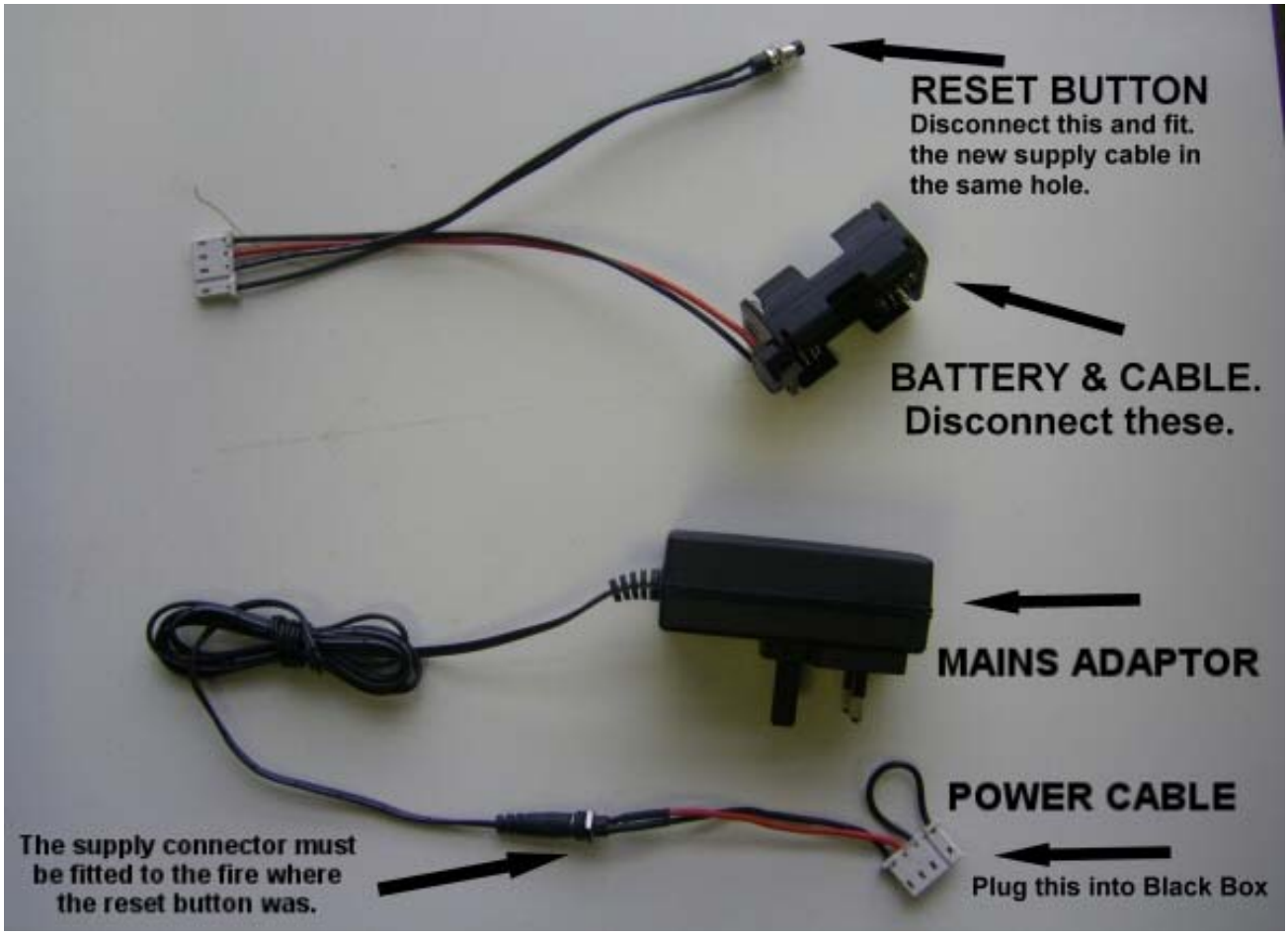
THE WALL SWITCH MUST BE FITTED

CVO Fire will not accept any warranty claims resulting from damage caused by fitting or removing the manual wall switch from the fire.

Converting the Fire To Mains Supply

This must be done by a GAS SAFE Engineer and trained electrician.

1. **Parts Required:**
    a. Mains Power Adaptor
    b. Mains Power Connector
    c. These are available as optional spare parts from the customer service department. Call 01325-327221
2. **Procedure**
    a. Remove the remote heat shield and disconnect the battery pack, supply lead and reset switch from the fire.
    b. Replace the reset switch with the power supply cable.
    c. Connect the power adaptor to the supply cable.
    d. Connect the power adaptor to the mains supply.
    e. SEE IMAGES BELOW



Fire Ribbon™

With Battery Remote System

USER HANDBOOK

For use with Natural Gas (G20) or LPG (G31)

This manual must be handed to the owner to the owner of the property once commissioned

Contents

Page 49 General Information
Page 50 Appliance Start Up/Shutdown (Lighting the Fire)
Page 53 Lighting the Fire with the Manual Switch
Page 54 Shutdown if the Handset is Faulty and the Fire is Lit
Page 55 Replacing the Batteries
Page 57 Cleaning Instructions
Page 58 Fire Guards and Hearths
Page 59 Warranty Information
Page 60 Contact Details

General Information

A qualified GAS SAFE registered installer is required to fully install the appliance, failure to do this may render the appliance dangerous and will invalidate the warranty.

This fire is intended for decorative purposes. Any purpose-provided ventilation should be checked regularly to ensure that it is free from obstruction. The fire should be serviced regularly by a qualified person.

The chimney should be swept before the appliance is installed, and should be swept and inspected regularly to ensure that all of the products of combustion are entering the flue and there is no excessive build up of soot.

Do not throw rubbish et cetera upon the burner surface area. Debris from any source, or soot formed, should be removed from time to time, see 'Cleaning instructions'.

The pilots ODS (Oxygen depletion sensor) must not be put out of operation.
The user must not adjust the pilot.
If any of its parts are damaged and need to be exchanged the original manufacturers parts must be used.

Once the flue and fire units have been checked and remedial action taken, the fire is ignited in the manner depicted in section 'Lighting the fire'.

Due to the newness of materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

For some countries a purpose provided air supply must be fitted in accordance with National Regulations – UK = 100cm2

This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

Fire Guards : It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.

Pilot Assembly : The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing device, which shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, restart the fire following the procedure in section 'Lighting the fire'. If the fire continues to shut itself off do not use the fire, and have the flue and fire checked by a suitably qualified person.

Appliance Start Up / Shut Down (Lighting the Fire)

The appliance is supplied with an internal battery power supply and is operated via handset. There are 6 x 'AA' batteries inside the appliance and 1 x 9V battery in the handset. Only use good quality batteries to ensure a long life.

If the main burner or pilot light is extinguished during lighting, do not attempt to re-light the pilot within three minutes.

To Reset the Appliance:
If the appliance is shut down unexpectedly the valve must be reset first before the fire can be re-lit. This can be done by pressing the "OFF" (button #1) until a beep is heard. Wait a few seconds then commence the starting sequence as detailed below by pressing both left had buttons at the same time.

Using the Handset (see image).

- **To Light the Fire** – As a "child proof" system both buttons #1 & #2 must be pressed at the same time for a number of seconds until the ignition (spark) sequence starts. To operate correctly the handset must be pointed directly at the magic eye on the appliance. When the pilot flame presence is detected (ionization flame control) the system holds for 10 seconds to warm the thermocouple. Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- **Standby Mode** - It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.

- **High Setting** - By pressing Button #3 the burner flame is increased to the maximum rate.

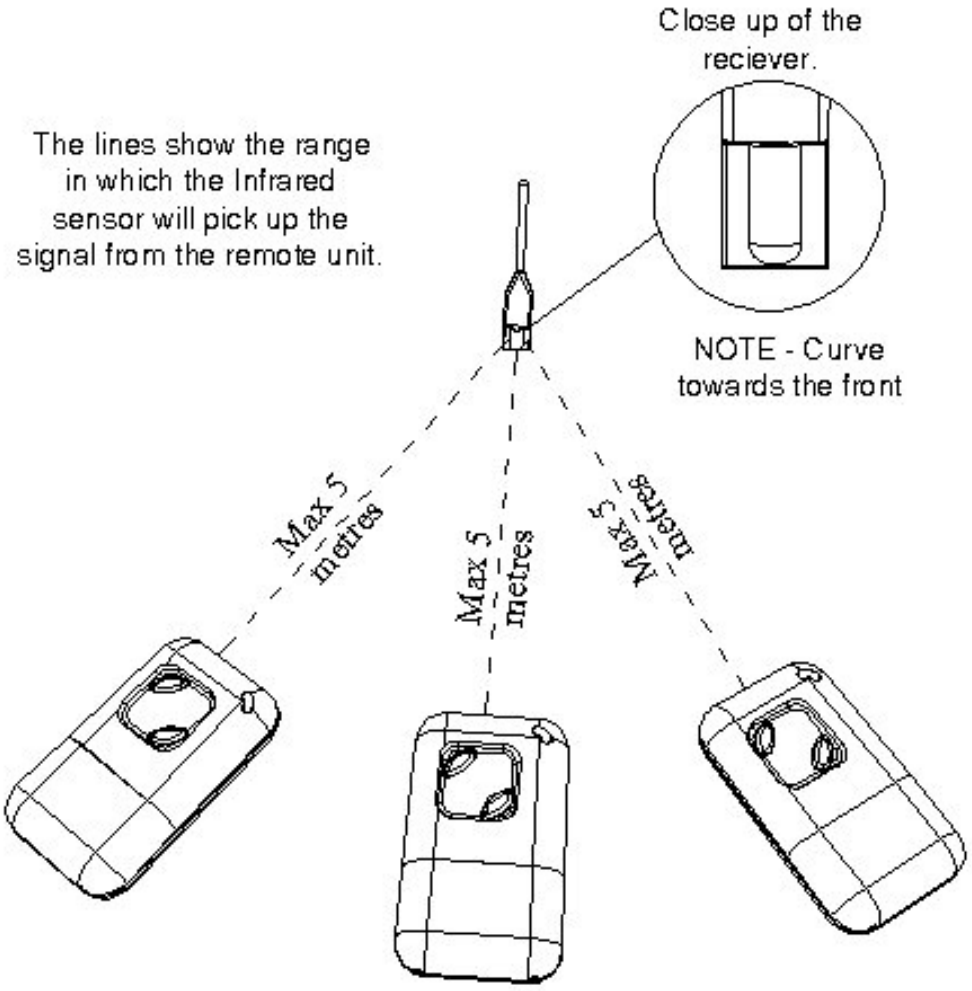
- **Low Setting** - By pressing Button #4 the burner flame can be reduced to the minimum rate.

- **Turn Off** - To turn the appliance OFF Button #1 is pressed.

Each time a button is pressed a "beep" will be heard.

Infra-Red Remote Operation

Infrared systems require "Line of sight" between the handset and the sensor at the appliance, it is a standard safety feature to ensure that the appliance cannot be remotely lit from another room.


Close up of the reciever.
The lines show the range in which the Infrared sensor will pick up the signal from the remote unit.
NOTE - Curve towards the front
Max 5 metres
Max 5 metres
Max 5 metres

The range of your remote control unit is around 5 metres. It is very important the handset is directed toward the infrared eye on the appliance

- **To Summarise:**
  - Button #1 & #2 together – This switches the appliance ON.
  - Button #1 – This switches the appliance OFF and Resets the Appliance.
  - Button #2 – This sets the unit into standby mode (pilot only)
  - Button #3 – This sets the flame at maximum rate.
  - Button #4 – This sets the flame at minimum rate.

Each time a button is pressed a "beep" will be heard.

Lighting the fire with the Manual Switch.

There is an optional wall switch. This is a manual switch membrane which can be stuck to the wall. Please ensure that the switch and cable do not become detached during assembly. Refer to the remote fault diagnosis if the unit "beeps" repeatedly. If the switch is not to be used the remote "link" must be fitted to the remote black box. The fire will not operate without either the switch or the link.

- Button #1 - By pressing this switch, this starts the ignition sequence (press & hold for 3 sec minimum). The gas to the pilot is open and the magnet unit pressed by the motor, the spark is generated. When the pilot flame presence is detected the system holds for 10 seconds to warm the thermocouple.
- Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.
- By pressing Button #3 the burner flame is increased to the maximum rate.
- By pressing Button #4 the burner flame can be reduced to the minimum rate. This may involve pressing the switch a number of times in steps to get the lowest setting.
- To turn the appliance OFF Button #1 is pressed.
- Each time a button is pressed a "beep" will be heard.

How to Shutdown if the Handset is Faulty and the Fire is Lit

The appliance has a safety shut down switch which is built into the remote system. This is in the form of a button fitted inside the appliance. In the unlikely event that the wall switch is not fitted and the handset is lost, damaged or broken while the fire is lit the fire can be shutdown by pressing this button.

Safety Shutdown Procedure

- Carefully lift the front shelf taking care that the appliance will be hot.
- The reset button is fitted to the top of the remote shield.
- Carefully insert hand below the shelf taking care not to touch any hot surfaces.
- Press and hold the button for up to 60 seconds.
- The appliance will shut down.
- Taking great care not to touch any hot surfaces, carefully remove your hand and replace the front shelf.
- Do not use the appliance until the handset has been repaired or replaced.
- To purchase a new handset call 01325-327221.
- ***If the fire has been converted to mains supply the reset button is replaced with the adaptor socket. To shutdown this version, unplug the adaptor.***

Replacing the Batteries

Main Appliance Batteries

To ensure a long life use a set of brand new lithium batteries. Always replace all 6 batteries at the same time otherwise the alarm will continue to sound. The remote has a memory and will highlight old batteries being used. If the remote alarm indicates that the batteries are "flat" do not use the appliance. Ensure the appliance is switched off and has had time to "cool down" before starting to replace the batteries. Lift the front shelf of the appliance taking care not to scratch the sides of the enclosure. Lift the battery cover and lift out the battery pack. Do not pull on the wires or they will be damaged. Remove the old batteries and wait for the alarm to sound again. Wait a further 2 minutes then fit 6 x AA batteries in the correct order and replace the battery pack in the holder, ensuring that no wires are disconnected. Replace the battery cover. Do not use the appliance with the battery cover open. Refit the front shelf.

SEE IMAGES BELOW:

NEVER USE OLD BATTERIES. THE BLACK BOX HAS A "MEMORY" AND WILL CONTINUE TO SOUND THE ALARM EVEN IF THE BATTERIES ARE CHANGED.

- **TO RESET THE ALARM:**
  - **TAKE OUT OLD BATTERIES AND WAIT 10 MINUTES**
  - **FIT A BRAND NEW SET OF LITHIUM OR ALKALINE BATTERIES**
  - **THE ALARM WILL RESET.**

To change the batteries: Lift the front shelf of the appliance taking care not to scratch the sides of the enclosure. The battery pack will be visible. Lift the battery pack from its holder and remove the flat batteries. Insert 6 x AA batteries in the correct order and replace the battery pack in the holder, ensuring that no wires are disconnected. Refit the front shelf.

Hand Set Batteries

Turn over the hand set and unclip the battery cover. Fit a new 9V battery and refit the battery cover. The appliance should now operate normally.

NOTE: CVO Fire recommends that only high quality batteries are used in this appliance. Lithium batteries provide the longest life.

Cleaning Instructions

Before cleaning the appliance turn off the Fire unit and allow it to cool for a number of hours. Before using any cleaning materials test a small area first to ensure compatibility with the appliance finish. CVO Fire cannot be held responsible for damage caused by cleaning the appliance.

Burner Bar / Deposits

It is normal for the burner bar to show a reddish or white deposit. This is caused by bi-products of the gas being burnt and is unavoidable. This can be remedied by using a stove paint like **Hotspot High Temperature Stove Paint** which is sold in 100ml cans online for approx £7. Similar products may also be available from major DIY stores or fireplace retailers. It may be required to paint the burner bar every 6 months or so depending on usage.

Cleaning the Gas Fire Burner and Enclosure

The most effective method of dust/debris removal is achieved with the aid of a vacuum cleaner however; great care must be taken to ensure that the pilot assembly is not touched. Using a vacuum cleaner with a soft brush head gently remove any debris/dust from inside the enclo0sure and around the burner unit. Once all of the dust and debris has been removed the surfaces can be cleaned with the use of a soft cloth and a hand held "stainless steel" cleaner which is available from most supermarkets.

Cleaning the Metal Fascia

This can be done with a soft cloth and a hand held "stainless steel" cleaner which is available from most supermarkets.

Cleaning the Stone Fascia

This can be done with a soft cloth and "stone cleaner" which is available from most supermarkets.

Removing spillages

This appliance has an electronic remote system. Where a liquid has been spilled onto the surface of the fire or enclosure DO NOT USE THE APPLIANCE – contact your installer to ensure the remote system functions correctly.

Wax

Never place candles on the burner shelves. If molten wax enters the burner unit – DO NOT USE THE APPLIANCE - contact your installer to remove the spillage and ensure the remote system functions correctly.

Warning: Fire Guards & Hearths

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised.
It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm. The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame. In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

WARRANTY INFORMATION

This appliance carries full CE approval and has a long and reliable history. The CE approval ensures that, if installed correctly, the appliance will function as designed. If the appliance develops a fault please refer to the fault diagnosis section earlier in this booklet for possible causes.

This appliance is supplied with a 12 month warranty from the date of delivery. The Warranty covers defective parts only and does not cover typical wear and tear that occurs with a gas fire appliance or installation damage.

In order to make a warranty claim you will be required to supply the:

- serial number of the appliance [as shown on the front of this book]
- full details of the GAS SAFE engineer who installed the appliance - we may request a copy of the installation receipt.

Failure to supply details of the Registered Engineer who installed the appliance will invalidate the warranty. To register your appliance please complete and return the warranty card supplied with the fire. To raise a warranty claim call Customer Service on 01325-327221.

IMPORTANT NOTE - "Heat Damage"

This fire must never be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system. We will not accept any claims for "melted remote system". In this instance in highlights a very serious issue over the installation of the appliance. The appliance has been tested to CE standards to ensure, when installed correctly, that all of the components operate within the designed temperatures. In the instance of the remote system becoming hot enough to melt it highlights an install fault not a component failure. Typical causes are – using the fire without the heat shield, incorrect burner ventilation, unsealed enclosure, an unsealed flue system or flame reversal

ONLY USE GENUINE REPLACEMENT PARTS.

Spirit Fires Ltd,
4 Beaumont Square
Aycliffe Industrial Park,
Newton Aycliffe
County Durham,
DL5 6XN
T – 01325 327 221
F – 01325 327 292
www.cvo.co.uk

The information supplied in this manual is correct at the time of publication; Dated on the 31/1/12. There may be changes made in future as we improve our products.

If there are any queries about this appliance please email info@cvoco.uk or call our technical department on 01325-327221.

Visit our web site for further details of our products